



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Note to Reader

January 15, 1998

Background: As part of its effort to involve the public in the implementation of the Food Quality Protection Act of 1996 (FQPA), which is designed to ensure that the United States continues to have the safest and most abundant food supply.

EPA is undertaking an effort to open public dockets on the organophosphate pesticides. These dockets will make available to all interested parties documents that were developed as part of the U.S. Environmental Protection Agency's process for making reregistration eligibility decisions and tolerance reassessments consistent with FQPA. The dockets include preliminary health assessments and, where available, ecological risk assessments conducted by EPA, rebuttals or corrections to the risk assessments submitted by chemical registrants, and the Agency's response to the registrants' submissions.

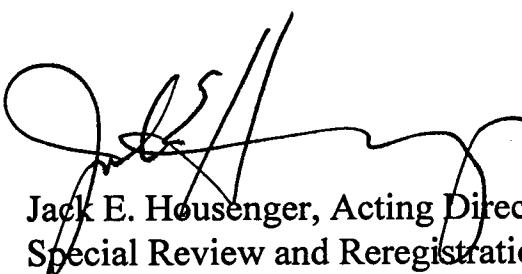
The analyses contained in this docket are preliminary in nature and represent the information available to EPA at the time they were prepared. Additional information may have been submitted to EPA which has not yet been incorporated into these analyses, and registrants or others may be developing relevant information. It's common and appropriate that new information and analyses will be used to revise and refine the evaluations contained in these dockets to make them more comprehensive and realistic. The Agency cautions against premature conclusions based on these preliminary assessments and against any use of information contained in these documents out of their full context. Throughout this process, If unacceptable risks are identified, EPA will act to reduce or eliminate the risks.

There is a 60 day comment period in which the public and all interested parties are invited to submit comments on the information in this docket. Comments should directly relate to this organophosphate and to the information and issues available in the information docket. Once the comment period closes, EPA will review all comments and revise the risk assessments, as necessary.

These preliminary risk assessments represent an early stage in the process by which EPA is evaluating the regulatory requirements applicable to existing pesticides. Through this opportunity for notice and comment, the Agency hopes to advance the openness and scientific soundness underpinning its decisions. This process is designed to assure that America continues to enjoy the safest and most abundant food supply. Through implementation of EPA's tolerance reassessment program under the Food Quality Protection Act, the food supply will become even safer. Leading health experts recommend that all people eat a wide variety of foods, including at least five servings of fruits and vegetables a day.

Note: This sheet is provided to help the reader understand how refined and developed the pesticide file is as of the date prepared, what if any changes have occurred recently, and what new information, if any, is expected to be included in the analysis before decisions are made. **It is not meant to be a summary of all current information regarding the chemical.** Rather, the sheet provides some context to better understand the substantive material in the docket (RED chapters, registrant rebuttals, Agency responses to rebuttals, etc.) for this pesticide.

Further, in some cases, differences may be noted between the RED chapters and the Agency's comprehensive reports on the hazard identification information and safety factors for all organophosphates. In these cases, information in the comprehensive reports is the most current and will, barring the submission of more data that the Agency finds useful, be used in the risk assessments.



Jack E. Housenger, Acting Director
Special Review and Reregistration Division

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

October 9, 1998

MEMORANDUM

SUBJECT: Phosmet. (Chemical ID No. 059201/List A Reregistration Case No. 0242). Acute and Chronic Dietary Exposure and Risk Analyses for the HED RED. No MRID #. DP Barcode No. D250037.

FROM: Christina B. Swartz, Chemist
Reregistration Branch 1
Health Effects Division (7509C)

THRU: Whang Phang, Ph.D., Branch Senior Scientist
Reregistration Branch 1
Health Effects Division (7509C)

TO: Linda Werrell/Kathy Monk
Reregistration Branch
Special Review and Reregistration Division (7508W)

Action Requested

In conjunction with completion of a residue chemistry chapter of the HED RED, an anticipated residue assessment has been conducted for the organophosphate active ingredient phosmet. Acute and chronic dietary risk assessments should be conducted using the Dietary Exposure Evaluation Model (DEEM™), based on reassessed tolerances and anticipated residues, and on toxicological endpoints selected for acute and chronic dietary exposure.

Toxicological Information

The HED Hazard Identification Assessment Review Committee (HIARC) met 9/4/97 to evaluate the toxicology database for phosmet in order to identify toxicological endpoints and dose levels of concern for use in risk assessments for various exposure routes and duration. The Committee re-evaluated the reference dose (RfD) for chronic dietary risk assessment, and addressed special sensitivity to infants and children as required by the Food Quality Protection Act (FQPA) of 1996. The conclusions of the Committee for phosmet were presented in a memo dated 12/19/97 (G. Ghali). In meetings conducted to assess consistency in selecting endpoints and safety factors for all organophosphates, changes were made to the conclusions of the HIARC (refer to the summary documents, "Hazard Assessment of the Organophosphates: Report of the HIARC" and "FQPA

Safety Factor Recommendations for the Organophosphates," B. Tarplee and J. Rowland, 7/7/98 and 8/6/98, respectively). The conclusions are included in the relevant sections below.

Acute Dietary

A chronic toxicity/carcinogenicity study in rats was selected to establish an acute dietary endpoint and no observable effects level (NOEL). The study was summarized in the Committee report. Even though the endpoint was selected from a long-term study, the effects were seen as early as 2-4 weeks; furthermore, doses used in the chronic study were lower than those used in the subchronic toxicity studies. Effects seen at the lowest observable effects level (LOEL) of 1.8 mg/kg/day included red blood cell (RBC) and serum cholinesterase inhibition; the dose selected for acute dietary risk assessment was the NOEL of 1.1 mg/kg/day.

Uncertainty factors (UFs) for acute dietary risk assessment include a factor of 10X for intra-species variability and an additional 10X for inter-species extrapolation. The Committee concluded that the full neuropathological potential for phosmet could not be determined based on existing data, and recommended a 3X uncertainty factor be retained pursuant to the requirements of FQPA. These conclusions were supported in the FQPA Safety Factor Committee consideration of the application of safety factors to all organophosphate insecticide active ingredients.

Based on a NOEL of 1.1 mg/kg/day, and on an uncertainty factor of 100, the acute RfD (aRfD), is equal to the NOEL/UF, or 0.011 mg/kg/day. Note that an additional UF of 3X should be applied during risk characterization.

Chronic Dietary

The reference dose (RfD) selected for use in chronic dietary risk assessments was based on the same endpoint and dose (NOEL) selected for acute dietary risk assessment. In addition, the same uncertainty factors apply--a 100X factor for intra-species variability and inter-species extrapolation, and an additional 3X as required by FQPA, to be applied during risk characterization. The RfD for chronic dietary risk assessment was determined to be 0.011 mg/kg/day.

Carcinogenicity

The Committee concluded that previously available data were adequate to assess the carcinogenic potential of phosmet. The HED Cancer Peer Review Committee recommended phosmet be considered a Group C, or possible human carcinogen. For dietary risk assessment, use of the RfD approach was recommended, i.e. risk estimates based on the reference dose for chronic effects would be considered to account for potential carcinogenicity.

Residue Information

Chronic Dietary Risk Analysis

In conjunction with the preparation of the residue chemistry chapter of the HED RED (6/18/98), a tolerance reassessment was completed. The reassessed tolerances serve as the basis for the commodities included in the current dietary risk assessment.

Anticipated residues (ARs) were generated for numerous commodities, using both field trial/processing study data and monitoring data from USDA's Pesticide Data Program (PDP, 1995 and 1996 data); detailed summaries are included in the D. Hrdy memoranda dated 8/1/96 and 7/17/98. The use of PDP data in the assessment is summarized in Table 1. Refinements to residues for which only field trial, processing and percent crop treated (%CT) data were available are summarized in Table 2. Where anticipated residues were determined for processed commodities, based either on monitoring data for processed commodities or on concentration/reduction factors generated in processing studies, the DEEM™ default concentration factors were not used. For anticipated residues generated using PDP data, the second adjustment factor in DEEM™, i.e., for percent crop treated, was set at 1 (100%), since percent crop treated is inherently incorporated into the monitoring data.

For some commodities, the anticipated residues listed below are different from those shown in the D. Hrdy memoranda. Although the 7/17/98 recommended using the juice AR for wine/sherry, the HED ChemSAC subsequently determined that translation from grape juice to wine/sherry is not appropriate due to the differences in processing procedures; therefore, the current assessment uses tolerance-level residues in wine/sherry, with a concentration factor of 0.68X. In the 7/17/98 memo, field trial data were used to determine anticipated residues in plums and prunes; in the current assessment, peach data from PDP were translated to plums, and the empirical concentration factor was applied to determine the residue in prunes. For some commodities, the %CT was incorporated into the AR in the 7/17/98 memo; in the current assessment, the %CT was not included in the AR, so that it could be entered into DEEM™ as the second adjustment factor. Consequently, future changes in %CT information will not require re-calculation of anticipated residues.

Table 1. Summary of Monitoring Data from USDA's PDP, and Anticipated Residues.¹

Commodity/ Food Form	# Samples Analyzed ²	# Detects (% Detects) ³	%CT ⁴	Tolerance/Max. Residue Detected ⁵	Processing Factors ⁶	AR (ppm) ⁷
Apples/	447	16 (3.6)	34	10/0.15	NA	0.004
Juice	151	4 (2.6)		NA/0.01	0.11X ⁸	0.003
Dried					0.095X	0.0004
Canned					0.17X ⁹	0.00068
Pears/	Translated from apples		34	10/NA	NA	0.004
Juice					0.11X ⁸	0.003
Dried					0.095X	0.0004
Canned					0.17X	0.00068
Grapes/	439	12 (2.7)	5	10/0.5	NA	0.006
Juice					0.68X	0.004
Raisins					1X	0.006
Wine					0.68X	6.8
Peaches/	273	75 (27.5)	22	10/1.7	NA	0.05
Juice					1X	0.05
Dried					0.03X	0.0015
Apricots/	Translated from peaches		3	10/NA	NA	0.05
Juice					1X	0.05
Dried					0.03X	0.0015
Plums/	Translated from peaches		16	5/NA	NA	0.05
Juice					1X	0.05
Dried		8		5/NA	0.31	0.0155
Nectarines	Translated from peaches		16	10/NA	NA	0.05
Sweet Peas	355	0 (0)	1	1/NA	NA	0.00007
Potatoes ¹⁰	707	0 (0)	4	0.1/NA	NA	0.0003
Sweet Potatoes	507	30 (5.9)	4	10/0.42	NA	0.009
Milk ¹¹	202	0 (0)	N/A	0.1/NA	NA	0.0015

¹ NA = not applicable. Anticipated residues were generated using the procedure recommended by the HED ChemSAC (refer to the 5/19/98 memo).

² The number of samples analyzed by PDP for a particular commodity.

³ The number of samples with detectable residues/the percentage of samples with detectable residues.

⁴ The percent crop treated (%CT) determined by BEAD (refer to the J. Alsadek memo dated 3/5/98); note that since %CT is inherently incorporated into ARs generated using monitoring data, an additional correction for %CT is not appropriate.

- ⁵ The reassessed tolerance (C. Swartz memo dated 6/18/98)/the maximum residue detected (in ppm) by PDP.
- ⁶ Processing factors determined in processing studies submitted to the Agency in support of reregistration.
- ⁷ Anticipated residues (ARs) are expressed in ppm. Shaded values were also used in the acute dietary risk analysis, since they are blended commodities.
- ⁸ Although a processing factor was generated, it was not used to determine the AR, since monitoring data were available for juice.
- ⁹ Using data presented in Table 2 of the 7/18/98 D. Hrdy memo, an average processing factor of 0.17X was calculated based on processing factors for canned sliced apples (0.025X), canned applesauce (0.074X), and canned unclarified apple juice (0.42X).
- ¹⁰ The potato data were generated in 1995; all other PDP data were generated in 1996.
- ¹¹ No residues were detected in milk, with limits of detection (LODs) ranging from 0.002 to 0.003 ppm. Without a detailed analysis of the data, the use of ½ the maximum LOD of 0.003 (or 0.0015) ppm is appropriate, but is still a highly refined residue value for milk.

Table 2. Summary of Anticipated Residues Generated Using Tolerances, Field Trial Data, Processing Data, and %CT.¹

Commodity/ Food Form	Reassessed Tolerance (ppm) ²	FT Residue (ppm) ³	%CT ⁴	Processing Factor ⁵	AR (ppm) ⁶
Tree Nuts/	0.1	NA		NA	
Almond		NA	5	NA	0.05
Filbert (Hazelnut)		NA	6	NA	0.05
Hickory nut		NA	6	NA	0.05
Pecan		NA	7	NA	0.05
Pistachio		NA	13	NA	0.05
Walnut		NA	6	NA	0.05
Blueberry	TBD (10)	NA	25	NA	10
Cranberry	TBD (10)	NA	10	NA	10
Cherry	10	5.2	75	NA	5.2
Cherry juice	N/A	N/A	N/A	0.68X	5.2
Kiwi fruit	25	14.2	14	NA	14.2
Dried peas	0.5	0.07	22	NA	0.07
Cottonseed/	0.1	NA	<1%	NA	NA
Meal	NA	NA	<1%	NA	0.1
Oil	0.2	NA	<1%	NA	0.2

¹ NA = not applicable. Refer to the D. Hrdy memoranda dated 8/1/96 and 7/17/98 for a discussion of the field

trial data used in the assessment.

² Refer to the 6/18/98 Residue chemistry chapter of the RED for detailed explanations of the tolerance reassessment summary. Note that tolerances for residues in blueberries and cranberries could not be reassessed, and therefore the existing tolerances were used in the assessment.

³ For some commodities, field trial data were used to further refine the residue level to be used in the assessment. Based on the information presented, the highest average field trial (HAFT) was provided for kiwi, while data provided for cherries and dried peas are average field trial residues.

⁴ Percent crop treated data were summarized in the J. Alsadek memo dated 3/5/98; these numbers were entered into DEEM™ as adjustment factor 2.

⁵ Processing factors have been determined for some commodities; therefore, these factors were entered into DEEM™ as “adjustment factor 1.”

⁶ Since adjustment factors for both %CT and processing were incorporated into DEEM™, either the tolerance or the field residue value was entered into the DEEM™ residue column. Shaded values were also used in the acute dietary risk analysis, since they are blended commodities and/or highest average field trial residues.

Anticipated residues in meat, fat and meat by-products (of cattle, goats, horses and sheep) were generated in the residue chemistry chapter of the HED RED. For cattle, anticipated residues were 0.024, 0.02 and 0.026 ppm in meat, meat by-products and fat, respectively. For goats, horses and sheep, the anticipated residues are 0.00009, 0.00006 and 0.00017 ppm in meat, meat by-products and fat, respectively. Tolerance level residues were used for pork commodities in the DEEM™ analysis.

Three different chronic DEEM™ analyses were conducted. First, an analysis was completed using existing tolerances and concentration factors derived from submitted data (attachment 1); the second analysis was completed using reassessed tolerances and empirical concentration factors (attachment 2). Finally, a third analysis was completed for commodities supported through reregistration using anticipated residues as described above, empirical concentration factors, and % crop treated data provided by BEAD (attachment 3).

Acute Dietary Risk Analysis

Tolerance-level residues are generally used in acute dietary risk analysis; where available, the highest average field trial (HAFT) residue value may be used. The only commodity for which the HAFT was supplied in the D. Hrdy memo dated 7/17/98 is kiwi (14.2 ppm). Acute dietary risk assessments may be refined by including anticipated residues for blended commodities such as juice or milk (refer to highlighted values in Tables 1 and 2).

In the current assessment, three types of acute dietary risk analyses were conducted. First, an analysis was conducted using tolerance-level residues for existing tolerances, modified with concentration factors determined from submitted data (Attachment 4). Second, an analysis was conducted using reassessed tolerances and concentration factors (Attachment 5). Finally, an acute assessment was

conducted using tolerance level residues for most commodities, applicable concentration factors, anticipated residues for blended commodities, and included distributions for %CT for apples, pears, grapes, peaches, potatoes, apricots, nectarines and plums (Attachment 6). The %CT was incorporated into the acute analysis using residue distribution files (RDFs). Each RDF contained 100 artificial data points reflecting tolerance-level residues for those assumed to be treated, and "0" for those not treated.

Results

The DEEM™ Software estimates dietary exposure to pesticides in foods based on the 3-day average of consumption data collected in USDA's Continuing Surveys of Food Intake by Individuals, 1989-1991. Using toxicological parameters specified by HED's HIARC, DEEM™ expresses dietary risk as a function of dose through dietary exposure. The results for phosmet are shown in Tables 3 (chronic dietary risk) and 4 (acute dietary risk). Table 4 shows only the most refined acute dietary risk assessment conducted by HED (i.e., incorporating %CT and anticipated residues for blended commodities), on a per capita basis.

Table 3. Chronic Dietary Risk, Expressed as a Percentage of the Chronic Dietary RfD.

Population Subgroup	Percent of RfD, based on		
	Published Tolerances (1)	Reassessed Tolerances (2)	Anticipated Residues (3)
U.S. Pop - 48 states - all seasons	266	114	2
All infants (<1 year)	690	463	2
Nursing infants (<1 year)	374	214	<1
Non-nursing infants (<1 year)	824	567	3
Children (1-6 years)	699	336	4
Children (7-12 years)	416	178	3
Females (13-19 yrs/not preg. or nursing)	208	56	1
Females (13-50)	194	73	2
Males (13-19 years)	210	60	2
Males (20+)	176	68	2

Table 4. Acute “Per Capita” Dietary Risk Expressed as a Percentage of the Acute Dietary RfD.
 [Based on Reassessed Tolerances/%Crop Treated/ARs for Blended Commodities]

Population Subgroup	95th Percentile		99th Percentile		99.9 Percentile	
	Exposure (mg/kg/day)	% aRfD	Exposure (mg/kg/day)	% aRfD	Exposure (mg/kg/day)	% aRfD
U.S. pop - all seasons	0.026879	244	0.067914	617	0.153594	1396
All infants (<1 yr)	0.101314	921	0.198949	1809	0.304441	2768
Nursing infants (<1yr)	0.020436	186	0.109257	993	0.259654	2360
Non-nursing infants (<1 yr)	0.112066	1019	0.212461	1931	0.286886	2608
Children (1-6 yrs)	0.060230	548	0.123129	1119	0.255283	2321
Children (7-12 yrs)	0.037882	344	0.073530	668	0.156196	1420
Females (13-19 yrs, not pregnant or nursing)	0.009614	87	0.031091	283	0.056573	514
Females (13-50 yrs)	0.023355	212	0.056760	516	0.120168	1092
Males (13-19 yrs)	0.014505	132	0.030415	276	0.060860	553
Males (20+ yrs)	0.022541	205	0.049629	451	0.086259	784

Chronic dietary risk for phosmet is below the Agency’s level of concern, based on the highly refined residue estimates obtained from PDP monitoring data, processing studies and % crop treated data provided by BEAD.

Acute dietary risk for phosmet exceeds the Agency’s level of concern for the general U.S. population and various population subgroups. This is not an upper bound assessment, since anticipated residues were used for blended commodities, and % crop treated distributions were used in the analysis; however, additional refinements could be made using a probabilistic assessment and residue data distributions for the included commodities. The registrant has conducted a probabilistic exposure assessment for phosmet; the assessment has been submitted to EPA, and will undergo review in HED.

Refer to the attached DEEM™ analyses for details.

Attachments:

Attachment 1: Chronic Dietary Exposure Analysis Based on Published Tolerances and Empirical Concentration Factors.

Attachment 2: Chronic Dietary Exposure Analysis Based on Reassessed Tolerances and Empirical Concentration Factors.

Attachment 3: Chronic Dietary Exposure Analysis Based on Anticipated Residues, Empirical Concentration Factors, and Percent Crop Treated Data.

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances and Empirical Concentration Factors.

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances and Empirical Concentration Factors.

Attachment 6: Acute Dietary Exposure Analysis Based on Reassessed Tolerances, Empirical Concentration Factors, and % Crop Treated Distributions (RDF files) for Apples, Pears, Grapes, Peaches, Potatoes, Apricots, Nectarines and Plums.

Secondary Review: Carol Christensen: 10/01/98; William Cutchin: 10/02/98

cc (with attachment): Reviewer (CSwartz); Brian Steinwand (CEB1/HED, 7509C)

cc (without attachment): List A File; SF

7509C:CSwartz:RRB1:CM2:Rm 804F:703 305 5877:09/28/98

Attachment 1: Chronic Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors

U. S. Environmental Protection Agency
 DEM89N CHRONIC analysis for PHOSMET
 Residue file name: 059201R
 Analysis Date 10-07-1998
 Reference dose (RfD, CHRONIC) = 0.011000 mg/kg body-wt/day
 COMMENT 1: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)
 COMMENT 2: Based on Published Tolerances/Concentration Factors
 ======
 Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U. S. Pop - 48 states - all seasons	0.029313	266. 5%
U. S. Population - spring season	0.027171	247. 0%
U. S. Population - summer season	0.028490	259. 0%
U. S. Population - autumn season	0.032287	293. 5%
U. S. Population - winter season	0.029136	264. 9%
Northeast region	0.032359	294. 2%
Midwest region	0.028250	256. 8%
Southern region	0.025425	231. 1%
Western region	0.034073	309. 8%
Pacific Region	0.036057	327. 8%
Hispanics	0.031074	282. 5%
Non-hispanic whites	0.028997	263. 6%
Non-hispanic blacks	0.028333	257. 6%
Non-hispanic other than black or white	0.037750	343. 2%
All infants (<1 year)	0.075921	690. 2%
Nursing infants (<1 year)	0.041092	373. 6%
Non-nursing infants (<1 year)	0.090580	823. 5%
Children (1-6 years)	0.076931	699. 4%
Children (7-12 years)	0.045772	416. 1%
Females (13-19 yrs/not preg. or nursing)	0.022859	207. 8%
Females (20+ years/not preg. or nursing)	0.021609	196. 4%
Females (13-50 years)	0.021390	194. 5%
Females (13+/pregnant/not nursing)	0.023808	216. 4%
Females (13+/nursing)	0.035717	324. 7%
Males (13-19 years)	0.023042	209. 5%
Males (20+ years)	0.019381	176. 2%
Seniors (55+)	0.023032	209. 4%

Attachment 1: Chronic Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors

U. S. Environmental Protection Agency
DEEM89N CHRONIC analysis for PHOSMET

Ver. 6.12

(1989-92 data)

Residue file name: 059201R

Adjustment factor #2 NOT used.

Analysis Date 10-07-1998

Residue file dated: 10-07-1998/11:59:35/8

Reference dose (RfD, CHRONIC) = 0.011000 mg/kg body-wt/day

COMMENT 1: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)

COMMENT 2: Based on Published Tolerances/Concentration Factors

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Residue file listing

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
7	01009AA	N	BLUEBERRIES	10.000000	1.00	0.25
8	01010AA	A	CRANBERRIES	10.000000	1.00	0.10
9	01010JA	A	CRANBERRIES- JUICE	10.000000	1.10	0.10
13	01014AA	A	GRAPES	10.000000	1.00	0.05
14	01014DA	A	GRAPES- RAISINS	10.000000	1.00	0.05
15	01014JA	A	GRAPES- JUICE	10.000000	0.68	0.05
22	02002AB	K	GRAPEFRUIT- PEELED FRUIT	5.000000	1.00	1.00
23	02002JA	K	GRAPEFRUIT- JUICE	5.000000	2.10	1.00
26	02004AB	K	LEMONS- PEELED FRUIT	5.000000	1.00	1.00
27	02004HA	K	LEMONS- PEEL	5.000000	1.00	1.00
28	02004JA	K	LEMONS- JUICE	5.000000	2.00	1.00
30	02005AB	K	LIMES- PEELED FRUIT	5.000000	1.00	1.00
31	02005HA	K	LIMES- PEEL	5.000000	1.00	1.00
32	02005JA	K	LIMES- JUICE	5.000000	2.00	1.00
33	02006JC	K	ORANGES- JUICE- CONCENTRATE	5.000000	6.70	1.00
34	02006AB	K	ORANGES- PEELED FRUIT	5.000000	1.00	1.00
35	02006HA	K	ORANGES- PEEL	5.000000	1.00	1.00
36	02006JA	K	ORANGES- JUICE	5.000000	1.80	1.00
40	03001AA	R	ALMONDS	0.100000	1.00	0.05
44	03005AA	R	FILBERTS (HAZELNUTS)	0.100000	1.00	0.06
45	03006AA	R	HICKORY NUTS	0.100000	1.00	0.06
47	03008AA	R	PECANS	0.100000	1.00	0.07
48	03009AA	R	WALNUTS	0.100000	1.00	0.13
50	03011AA	A	PISTACHIO NUTS	0.100000	1.00	0.06
52	04001AA	L	APPLES	10.000000	1.00	0.34
53	04001DA	L	APPLES- DRIED	10.000000	0.09	0.34
54	04001JA	L	APPLES- JUICE/CIDER	10.000000	0.11	0.34
56	04003AA	L	PEARS	10.000000	1.00	0.34
57	04003DA	L	PEARS- DRIED	10.000000	0.03	0.34
59	05001AA	M	APRICOTS	5.000000	1.00	0.03
60	05001DA	M	APRICOTS- DRIED	5.000000	0.03	0.03
61	05002AA	M	CHERRIES	10.000000	1.00	0.24
62	05002DA	M	CHERRIES- DRIED	10.000000	4.00	0.24
63	05002JA	M	CHERRIES- JUICE	10.000000	0.68	0.24
64	05003AA	M	NECTARINES	5.000000	1.00	0.16
65	05004AA	M	PEACHES	10.000000	1.00	0.22
66	05004DA	M	PEACHES- DRIED	10.000000	0.03	0.22
67	05005AA	M	PLUMS(DAMSONS)	5.000000	1.00	0.16
68	05005DA	M	PLUMS- PRUNES(DRIED)	5.000000	0.31	0.08
69	05005JA	M	PLUMS/PRUNE- JUICE	5.000000	1.40	0.16
97	06018AA	A	KIWI FRUIT	25.000000	1.00	0.16
159	11005AA	I	TOMATOES- WHOLE	2.000000	1.00	1.00
160	11005JA	I	TOMATOES- JUICE	2.000000	1.50	1.00
161	11005RA	I	TOMATOES- PUREE	2.000000	3.30	1.00
162	11005TA	I	TOMATOES- PASTE	2.000000	5.40	1.00
163	11005UA	I	TOMATOES- CATSUP	2.000000	2.50	1.00
207	14013AA	B	POTATOES/WHITE- WHOLE	0.100000	1.00	0.04

Attachment 1: Chronic Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctr #2
208	14013AB	B	POTATOES/WHITE- UNSPECIFIED	0.100000	1.00	0.04
209	14013AC	B	POTATOES/WHITE- PEELED	0.100000	1.00	0.04
210	14013DA	B	POTATOES/WHITE- DRY	0.100000	6.50	0.04
211	14013HA	B	POTATOES/WHITE- PEEL ONLY	0.100000	1.00	0.04
218	14018AA	B	SWEET POTATOES (INCL YAMS)	10.000000	1.00	1.00
238	15005AA	O	CORN/SWEET	0.500000	1.00	1.00
240	15007AA	G	PEAS (GARDEN) - DRY	0.500000	1.00	0.22
241	15009AA	G	PEAS (GARDEN) - GREEN	0.500000	1.00	0.02
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266	24002EA	O	CORN GRAIN- ENDOSPERM	0.500000	1.00	1.00
267	24002HA	O	CORN GRAIN- BRAN	0.500000	1.00	1.00
268	24002SA	O	CORN GRAIN/SUGAR/HFCS	0.500000	1.50	1.00
289	270020A	O	CORN GRAIN- OIL	0.500000	1.00	1.00
290	270030A	A	COTTONSEED- OIL	0.100000	1.00	0.01
291	27003WA	A	COTTONSEED- MEAL	0.100000	1.00	0.01
315	43058AA	A	GRAPES- WINE AND SHERRY	10.000000	1.00	0.05
321	53001BA	U	BEEF- MEAT BYPRODUCTS	0.200000	1.00	1.00
322	53001BB	U	BEEF- OTHER ORGAN MEATS	0.200000	1.00	1.00
323	53001DA	U	BEEF- DRIED	0.200000	1.92	1.00
324	53001FA	U	BEEF- FAT W/O BONES	0.200000	1.00	1.00
325	53001KA	U	BEEF- KIDNEY	0.200000	1.00	1.00
326	53001LA	U	BEEF- LIVER	0.200000	1.00	1.00
327	53001MA	U	BEEF- LEAN(FAT/FREE) W/O BONES	0.200000	1.00	1.00
328	53002BA	U	GOAT- MEAT BYPRODUCTS	0.200000	1.00	1.00
329	53002BB	U	GOAT- OTHER ORGAN MEATS	0.200000	1.00	1.00
330	53002FA	U	GOAT- FAT W/O BONE	0.200000	1.00	1.00
331	53002KA	U	GOAT- KIDNEY	0.200000	1.00	1.00
332	53002LA	U	GOAT- LIVER	0.200000	1.00	1.00
333	53002MA	U	GOAT- LEAN (FAT/FREE) W/O BONE	0.200000	1.00	1.00
334	53003AA	U	HORSEMEAT	0.200000	1.00	1.00
336	53005BA	U	SHEEP- MEAT BYPRODUCTS	0.200000	1.00	1.00
337	53005BB	U	SHEEP- OTHER ORGAN MEATS	0.200000	1.00	1.00
338	53005FA	U	SHEEP- FAT W/O BONE	0.200000	1.00	1.00
339	53005KA	U	SHEEP- KIDNEY	0.200000	1.00	1.00
340	53005LA	U	SHEEP- LIVER	0.200000	1.00	1.00
341	53005MA	U	SHEEP- LEAN (FAT FREE) W/O BONE	0.200000	1.00	1.00
342	53006BA	U	PORK- MEAT BYPRODUCTS	0.200000	1.00	1.00
343	53006BB	U	PORK- OTHER ORGAN MEATS	0.200000	1.00	1.00
344	53006FA	U	PORK- FAT W/O BONE	0.200000	1.00	1.00
345	53006KA	U	PORK- KIDNEY	0.200000	1.00	1.00
346	53006LA	U	PORK- LIVER	0.200000	1.00	1.00
347	53006MA	U	PORK- LEAN (FAT FREE) W/O BONE	0.200000	1.00	1.00
377	04001JC	L	APPLES- JUICE- CONCENTRATE	10.000000	0.33	0.34
388	24002MD	O	CORN GRAIN/SUGAR- MOLASSES	0.500000	1.50	1.00
389	01010JC	A	CRANBERRIES- JUICE- CONCENTRATE	10.000000	3.30	0.10
392	01014JC	A	GRAPES- JUICE- CONCENTRATE	10.000000	2.04	0.05
402	05004JA	M	PEACHES- JUICE	10.000000	1.00	0.22
404	04003NA	L	PEARS- JUICE	10.000000	1.00	0.34
410	05001JA	M	APRICOT JUICE	5.000000	1.00	0.03
423	11005DA	I	TOMATOES- DRIED	2.000000	14.30	1.00
441	02002JC	K	GRAPEFRUIT- JUICE- CONCENTRATE	5.000000	8.26	1.00
442	02004JC	K	LEMONS- JUICE- CONCENTRATE	5.000000	11.40	1.00
443	02005JC	K	LIMES- JUICE- CONCENTRATE	5.000000	6.00	1.00
448	02002HA	K	GRAPEFRUIT PEEL	5.000000	1.00	1.00

Attachment 2: Chronic Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

U. S. Environmental Protection Agency
DEEM89N CHRONIC analysis for PHOSMET
Residue file name: 059201RR
Analysis Date 10-07-1998
Reference dose (RfD, CHRONIC) = 0.011000 mg/kg body-wt/day
COMMENT 1: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)
COMMENT 2: Based on Reassessed Tolerances/Concentration Factors

Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U. S. Pop - 48 states - all seasons	0.012582	114.4%
U. S. Population - spring season	0.011219	102.0%
U. S. Population - summer season	0.012001	109.1%
U. S. Population - autumn season	0.014959	136.0%
U. S. Population - winter season	0.012030	109.4%
Northeast region	0.013354	121.4%
Midwest region	0.012881	117.1%
Southern region	0.010560	96.0%
Western region	0.014862	135.1%
Pacific Region	0.016395	149.0%
Hispanics	0.011222	102.0%
Non-hispanic whites	0.013032	118.5%
Non-hispanic blacks	0.010200	92.7%
Non-hispanic other than black or white	0.014760	134.2%
All infants (<1 year)	0.050886	462.6%
Nursing infants (<1 year)	0.023565	214.2%
Non-nursing infants (<1 year)	0.062385	567.1%
Children (1-6 years)	0.036936	335.8%
Children (7-12 years)	0.019553	177.8%
Females (13-19 yrs/not preg. or nursing)	0.006108	55.5%
Females (20+ years/not preg. or nursing)	0.009144	83.1%
Females (13-50 years)	0.008016	72.9%
Females (13+/pregnant/not nursing)	0.009260	84.2%
Females (13+/nursing)	0.016627	151.2%
Males (13-19 years)	0.006648	60.4%
Males (20+ years)	0.007536	68.5%
Seniors (55+)	0.010324	93.9%

Attachment 2: Chronic Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

U. S. Environmental Protection Agency
DEME89N CHRONIC analysis for PHOSMET
Residue file name: 059201RR
Analysis Date 10-07-1998
Reference dose (RfD, CHRONIC) = 0.011000 mg/kg body-wt/day
COMMENT 1: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)
COMMENT 2: Based on Reassessed Tolerances/Concentration Factors

Ver. 6.12

(1989-92 data)

Adjustment factor #2 NOT used.

Residue file dated: 10-07-1998/12:00:17/8

Residue file listing

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctr #2
7	01009AA	N	BLUEBERRIES	10.00000	1.00	0.25
8	01010AA	A	CRANBERRIES	10.00000	1.00	0.10
9	01010JA	A	CRANBERRIES- JUICE	10.00000	1.10	0.10
13	01014AA	A	GRAPES	10.00000	1.00	0.05
14	01014DA	A	GRAPES- RAISINS	10.00000	1.00	0.05
15	01014JA	A	GRAPES- JUI CE	10.00000	0.68	0.05
40	03001AA	R	ALMONDS	0.100000	1.00	0.05
44	03005AA	R	FILBERTS (HAZELNUTS)	0.100000	1.00	0.06
45	03006AA	R	HICKORY NUTS	0.100000	1.00	0.06
47	03008AA	R	PECANS	0.100000	1.00	0.07
48	03009AA	R	WALNUTS	0.100000	1.00	0.13
50	03011AA	A	PISTACHIO NUTS	0.100000	1.00	0.06
52	04001AA	L	APPLES	10.00000	1.00	0.34
53	04001DA	L	APPLES- DRI ED	10.00000	0.09	0.34
54	04001JA	L	APPLES- JUI CE/CIDER	10.00000	0.11	0.34
56	04003AA	L	PEARS	10.00000	1.00	0.34
57	04003DA	L	PEARS- DRI ED	10.00000	0.09	0.34
59	05001AA	M	APRICOTS	5.000000	1.00	0.03
60	05001DA	M	APRICOTS- DRI ED	5.000000	0.03	0.03
61	05002AA	M	CHERRIES	10.00000	1.00	0.24
62	05002DA	M	CHERRIES- DRI ED	10.00000	4.00	0.24
63	05002JA	M	CHERRIES- JUI CE	10.00000	0.68	0.24
64	05003AA	M	NECTARINES	5.000000	1.00	0.16
65	05004AA	M	PEACHES	10.00000	1.00	0.22
66	05004DA	M	PEACHES- DRI ED	10.00000	0.03	0.22
67	05005AA	M	PLUMS(DAMSONS)	5.000000	1.00	0.16
68	05005DA	M	PLUMS- PRUNES(DRI ED)	5.000000	0.31	0.08
69	05005JA	M	PLUMS/PRUNE- JUI CE	5.000000	1.40	0.16
97	06018AA	A	KIWI FRUIT	25.000000	1.00	0.16
207	14013AA	B	POTATOES/WHITE- WHOLE	0.100000	1.00	0.04
208	14013AB	B	POTATOES/WHITE- UNSPECIFIED	0.100000	1.00	0.04
209	14013AC	B	POTATOES/WHITE- PEELED	0.100000	1.00	0.04
210	14013DA	B	POTATOES/WHITE- DRY	0.100000	6.50	0.04
211	14013HA	B	POTATOES/WHITE- PEEL ONLY	0.100000	1.00	0.04
218	14018AA	B	SWEET POTATOES (INCL YAMS)	10.000000	1.00	1.00
240	15007AA	G	PEAS (GARDEN)- DRY	0.500000	1.00	0.22
241	15009AA	G	PEAS (GARDEN)- GREEN	1.000000	1.00	0.02
290	270030A	A	COTTONSEED- OIL	0.200000	1.00	0.01
291	27003WA	A	COTTONSEED- MEAL	0.100000	1.00	0.01
315	43058AA	A	GRAPES- WINE AND SHERRY	10.000000	1.00	0.05
318	50000DB	X	MILK- NONFAT SOLIDS	0.100000	1.00	1.00
319	50000FA	X	MILK- FAT SOLIDS	0.100000	1.00	1.00
320	50000SA	X	MILK SUGAR (LACTOSE)	0.100000	1.00	1.00
321	53001BA	U	BEEF- MEAT BYPRODUCTS	0.100000	1.00	1.00
322	53001BB	U	BEEF- OTHER ORGAN MEATS	0.100000	1.00	1.00
323	53001DA	U	BEEF- DRI ED	0.100000	1.92	1.00
324	53001FA	U	BEEF- FAT W/O BONES	0.200000	1.00	1.00

Attachment 2: Chronic Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctr #2
325	53001KA	U	BEEF- KIDNEY	0.100000	1.00	1.00
326	53001LA	U	BEEF- LIVER	0.100000	1.00	1.00
327	53001MA	U	BEEF- LEAN(FAT/FREE) W/O BONES	0.100000	1.00	1.00
328	53002BA	U	GOAT- MEAT BYPRODUCTS	0.100000	1.00	1.00
329	53002BB	U	GOAT- OTHER ORGAN MEATS	0.100000	1.00	1.00
330	53002FA	U	GOAT- FAT W/O BONE	0.100000	1.00	1.00
331	53002KA	U	GOAT- KIDNEY	0.100000	1.00	1.00
332	53002LA	U	GOAT- LIVER	0.100000	1.00	1.00
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333	53002MA	U	GOAT- LEAN (FAT/FREE) W/O BONE	0.100000	1.00	1.00
334	53003AA	U	HORSEMEAT	0.100000	1.00	1.00
336	53005BA	U	SHEEP- MEAT BYPRODUCTS	0.100000	1.00	1.00
337	53005BB	U	SHEEP- OTHER ORGAN MEATS	0.100000	1.00	1.00
338	53005FA	U	SHEEP- FAT W/O BONE	0.100000	1.00	1.00
339	53005KA	U	SHEEP- KIDNEY	0.100000	1.00	1.00
340	53005LA	U	SHEEP- LIVER	0.100000	1.00	1.00
341	53005MA	U	SHEEP- LEAN (FAT FREE) W/O BONE	0.100000	1.00	1.00
342	53006BA	U	PORK- MEAT BYPRODUCTS	0.040000	1.00	1.00
343	53006BB	U	PORK- OTHER ORGAN MEATS	0.040000	1.00	1.00
344	53006FA	U	PORK- FAT W/O BONE	0.200000	1.00	1.00
345	53006KA	U	PORK- KIDNEY	0.040000	1.00	1.00
346	53006LA	U	PORK- LIVER	0.040000	1.00	1.00
347	53006MA	U	PORK- LEAN (FAT FREE) W/O BONE	0.040000	1.00	1.00
377	04001JC	L	APPLES- JUICE- CONCENTRATE	10.000000	0.33	0.34
389	01010JC	A	CRANBERRIES- JUICE- CONCENTRATE	10.000000	3.30	0.10
392	01014JC	A	GRAPES- JUICE- CONCENTRATE	10.000000	2.04	0.05
398	50000WA	X	MILK- BASED WATER	0.100000	1.00	1.00
402	05004JA	M	PEACHES- JUICE	10.000000	1.00	0.22
404	04003NA	L	PEARS- JUICE	10.000000	0.11	0.34
405	15008AA	G	PEAS- SUCCUL. /BLACKEYE/COWPEA	1.000000	1.00	0.02
410	05001JA	M	APRICOT JUICE	5.000000	1.00	0.03

Attachment 3: Chronic Dietary Exposure Analysis Based on ARs/Conc. Factor/%CT.

U. S. Environmental Protection Agency
DEME89N CHRONIC analysis for PHOSMET
Residue file name: 059201AR
Analysis Date 10-07-1998
Reference dose (RfD, CHRONIC) = 0.011000 mg/kg body-wt/day
COMMENT 1: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)
COMMENT 2: Based on Reassessed Tols/Conc. Factors/ARs and %CT data

Total exposure by population subgroup

Population Subgroup	Total Exposure	
	mg/kg body wt/day	Percent of Rfd
U. S. Pop - 48 states - all seasons	0.000271	2. 5%
U. S. Population - spring season	0.000275	2. 5%
U. S. Population - summer season	0.000263	2. 4%
U. S. Population - autumn season	0.000268	2. 4%
U. S. Population - winter season	0.000281	2. 6%
Northeast region	0.000299	2. 7%
Midwest region	0.000260	2. 4%
Southern region	0.000223	2. 0%
Western region	0.000340	3. 1%
Pacific Region	0.000393	3. 6%
Hispanics	0.000205	1. 9%
Non-hispanic whites	0.000292	2. 7%
Non-hispanic blacks	0.000183	1. 7%
Non-hispanic other than black or white	0.000277	2. 5%
All infants (<1 year)	0.000245	2. 2%
Nursing infants (<1 year)	0.000070	0. 6%
Non-nursing infants (<1 year)	0.000320	2. 9%
Children (1-6 years)	0.000484	4. 4%
Children (7-12 years)	0.000331	3. 0%
Females (13-19 yrs/not preg. or nursing)	0.000155	1. 4%
Females (20+ years/not preg. or nursing)	0.000251	2. 3%
Females (13-50 years)	0.000234	2. 1%
Females (13+/pregnant/not nursing)	0.000171	1. 6%
Females (13+/nursing)	0.000548	5. 0%
Males (13-19 years)	0.000187	1. 7%
Males (20+ years)	0.000246	2. 2%
Seniors (55+)	0.000266	2. 4%

Attachment 3: Chronic Dietary Exposure Analysis Based on ARs/Conc. Factor/%CT.

U. S. Environmental Protection Agency
DEEM89N CHRONIC analysis for PHOSMET

Ver. 6.12

(1989-92 data)

Residue file name: 059201AR

Adjustment factor #2 used.

Analysis Date 10-07-1998

Residue file dated: 10-07-1998/12:01:32/8

Reference dose (RfD, CHRONIC) = 0.011000 mg/kg body-wt/day

COMMENT 1: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)

COMMENT 2: Based on Reassessed Tols/Conc. Factors/ARs and %CT data

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Residue file listing

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctrs #2
7	01009AA	N	BLUEBERRIES	10.00000	1.00	0.25
8	01010AA	A	CRANBERRIES	10.00000	1.00	0.10
9	01010JA	A	CRANBERRIES- JUICE	10.00000	1.10	0.10
13	01014AA	A	GRAPES	0.006000	1.00	1.00
14	01014DA	A	GRAPES- RAISINS	0.006000	1.00	1.00
15	01014JA	A	GRAPES- JUI CE	0.004000	1.00	1.00
40	03001AA	R	ALMONDS	0.050000	1.00	0.05
44	03005AA	R	FILBERTS (HAZELNUTS)	0.050000	1.00	0.06
45	03006AA	R	HICKORY NUTS	0.050000	1.00	0.06
47	03008AA	R	PECANS	0.050000	1.00	0.07
48	03009AA	R	WALNUTS	0.050000	1.00	0.13
50	03011AA	A	PISTACHIO NUTS	0.050000	1.00	0.06
52	04001AA	L	APPLES			
	11		Uncooked	0.004000	1.00	1.00
	12		Cooked: NFS	0.004000	1.00	1.00
	13		Baked	0.004000	1.00	1.00
	14		Boiled	0.004000	1.00	1.00
	15		Fried	0.004000	1.00	1.00
	31		Canned: NFS	0.000680	1.00	1.00
	32		Canned: Cooked	0.000680	1.00	1.00
	33		Canned: Baked	0.000680	1.00	1.00
	34		Canned: Boiled	0.000680	1.00	1.00
	41		Frozen: NFS	0.004000	1.00	1.00
	42		Frozen: Cooked	0.004000	1.00	1.00
	51		Cured: NFS (incl. smoked/pickled)	0.004000	1.00	1.00
53	04001DA	L	APPLES- DRI ED	0.000400	1.00	1.00
54	04001JA	L	APPLES- JUICE/CIDER	0.003000	1.00	1.00
56	04003AA	L	PEARS			
	11		Uncooked	0.004000	1.00	1.00
	12		Cooked: NFS	0.004000	1.00	1.00
	13		Baked	0.004000	1.00	1.00
	14		Boiled	0.004000	1.00	1.00
	31		Canned: NFS	0.000680	1.00	1.00
57	04003DA	L	PEARS- DRI ED	0.000400	1.00	1.00
59	05001AA	M	APRICOTS	0.050000	1.00	1.00
60	05001DA	M	APRICOTS- DRI ED	0.001500	1.00	1.00
61	05002AA	M	CHERRIES	5.200000	1.00	0.75
62	05002DA	M	CHERRIES- DRI ED	5.200000	4.00	0.75
63	05002JA	M	CHERRIES- JUI CE	5.200000	0.68	0.75
64	05003AA	M	NECTARINES	0.050000	1.00	1.00
65	05004AA	M	PEACHES	0.050000	1.00	1.00
66	05004DA	M	PEACHES- DRI ED	0.001500	1.00	1.00
67	05005AA	M	PLUMS(DAMSONS)	0.050000	1.00	1.00
68	05005DA	M	PLUMS- PRUNES(DRI ED)	0.050000	0.31	1.00
69	05005JA	M	PLUMS/PRUNE- JUICE	0.050000	1.00	1.00
97	06018AA	A	KIWI FRUIT	14.200000	1.00	0.16
207	14013AA	B	POTATOES/WHITE- WHOLE	0.000300	1.00	1.00

Attachment 3: Chronic Dietary Exposure Analysis Based on ARs/Conc. Factor/%CT.

Food Code	EPA Code	Crop Group	Food Name	Residue (ppm)	Adj. #1	Fctr #2
208	14013AB	B	POTATOES/WHITE- UNSPECIFIED	0.000300	1.00	1.00
209	14013AC	B	POTATOES/WHITE- PEELED	0.000300	1.00	1.00
210	14013DA	B	POTATOES/WHITE- DRY	0.000300	6.50	1.00
211	14013HA	B	POTATOES/WHITE- PEEL ONLY	0.000300	1.00	1.00
218	14018AA	B	SWEET POTATOES (INCL YAMS)	0.009000	1.00	1.00
240	15007AA	G	PEAS (GARDEN) - DRY	0.070000	1.00	0.22
241	15009AA	G	PEAS (GARDEN) - GREEN	0.000070	1.00	1.00
290	270030A	A	COTTONSEED- OIL	0.200000	1.00	0.01
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291	27003WA	A	COTTONSEED- MEAL	0.100000	1.00	0.01
315	43058AA	A	GRAPES- WINE AND SHERRY	10.000000	1.00	0.05
318	50000DB	X	MILK- NONFAT SOLIDS	0.001500	1.00	1.00
319	50000FA	X	MILK- FAT SOLIDS	0.001500	1.00	1.00
320	50000SA	X	MILK SUGAR (LACTOSE)	0.001500	1.00	1.00
321	53001BA	U	BEEF- MEAT BYPRODUCTS	0.020000	1.00	1.00
322	53001BB	U	BEEF- OTHER ORGAN MEATS	0.020000	1.00	1.00
323	53001DA	U	BEEF- DRIED	0.024000	1.92	1.00
324	53001FA	U	BEEF- FAT W/O BONES	0.026000	1.00	1.00
325	53001KA	U	BEEF- KIDNEY	0.020000	1.00	1.00
326	53001LA	U	BEEF- LIVER	0.020000	1.00	1.00
327	53001MA	U	BEEF- LEAN (FAT/FREE) W/O BONES	0.024000	1.00	1.00
328	53002BA	U	GOAT- MEAT BYPRODUCTS	0.000060	1.00	1.00
329	53002BB	U	GOAT- OTHER ORGAN MEATS	0.000060	1.00	1.00
330	53002FA	U	GOAT- FAT W/O BONE	0.000170	1.00	1.00
331	53002KA	U	GOAT- KIDNEY	0.000060	1.00	1.00
332	53002LA	U	GOAT- LIVER	0.000060	1.00	1.00
333	53002MA	U	GOAT- LEAN (FAT/FREE) W/O BONE	0.000090	1.00	1.00
334	53003AA	U	HORSEMEAT	0.000090	1.00	1.00
336	53005BA	U	SHEEP- MEAT BYPRODUCTS	0.000060	1.00	1.00
337	53005BB	U	SHEEP- OTHER ORGAN MEATS	0.000060	1.00	1.00
338	53005FA	U	SHEEP- FAT W/O BONE	0.000170	1.00	1.00
339	53005KA	U	SHEEP- KIDNEY	0.000060	1.00	1.00
340	53005LA	U	SHEEP- LIVER	0.000060	1.00	1.00
341	53005MA	U	SHEEP- LEAN (FAT FREE) W/O BONE	0.000090	1.00	1.00
342	53006BA	U	PORK- MEAT BYPRODUCTS	0.040000	1.00	1.00
343	53006BB	U	PORK- OTHER ORGAN MEATS	0.040000	1.00	1.00
344	53006FA	U	PORK- FAT W/O BONE	0.200000	1.00	1.00
345	53006KA	U	PORK- KIDNEY	0.040000	1.00	1.00
346	53006LA	U	PORK- LIVER	0.040000	1.00	1.00
347	53006MA	U	PORK- LEAN (FAT FREE) W/O BONE	0.040000	1.00	1.00
377	04001JC	L	APPLES- JUICE- CONCENTRATE	0.003000	0.33	1.00
389	01010JC	A	CRANBERRIES- JUICE- CONCENTRATE	10.000000	3.30	0.10
392	01014JC	A	GRAPES- JUICE- CONCENTRATE	0.004000	2.04	1.00
398	50000WA	X	MILK- BASED WATER	0.001500	1.00	1.00
402	05004JA	M	PEACHES- JUICE	0.050000	1.00	1.00
404	04003NA	L	PEARS- JUICE	0.003000	1.00	1.00
405	15008AA	G	PEAS- SUCCUL. /BLACKEYE/COWPEA	0.000070	1.00	1.00
410	05001JA	M	APRICOT JUICE	0.050000	1.00	1.00

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

U. S. Environmental Protection Agency
 DEEM ACUTE analysis for PHOSMET
 Residue file name: 059201r.R91
 Analysis Date: 10-07-1998/13: 33: 00 Residue file dated: 10-07-1998/11: 59: 35/8
 Acute Reference Dose (aRfD) = 0.011000 mg/kg body-wt/day
 Run Comment: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)
 Based on Existing Tolerances/Conc. Factors

U. S. pop - all seasons	Daily Exposure Analysis 1/ (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.029283	0.029474
Standard Deviation	0.047521	0.047616
Standard Error	0.000251	0.000253
Percent of aRfD	266.21	267.94

Percent of Person-Days that are User-Days = 99.35%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000978	8.89	10.00	0.074920	681.09
80.00	0.001952	17.74	5.00	0.108718	988.35
70.00	0.003580	32.55	2.50	0.151150	1374.09
60.00	0.006923	62.94	1.00	0.219369	1994.26
50.00	0.013112	119.20	0.50	0.269887	2453.52
40.00	0.021847	198.61	0.25	0.324076	2946.14
30.00	0.032234	293.04	0.10	0.394362	3585.11
20.00	0.046478	422.53			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000920	8.37	10.00	0.074735	679.41
80.00	0.001901	17.28	5.00	0.108498	986.35
70.00	0.003506	31.87	2.50	0.150874	1371.58
60.00	0.006792	61.75	1.00	0.219073	1991.57
50.00	0.012910	117.37	0.50	0.269558	2450.53
40.00	0.021620	196.54	0.25	0.323723	2942.93
30.00	0.032031	291.19	0.10	0.394057	3582.34
20.00	0.046293	420.84			

1/ Analysis based on all three-day participant records in CSFII 1989-92 survey.

All infants (<1 year)	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.075934	0.111613
Standard Deviation	0.124704	0.137391
Standard Error	0.005066	0.006769
Percent of aRfD	690.31	1014.67

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

Percent of Person-Days that are User-Days = 68.03%

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

All infants (<1 year) (cont'd)

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000710	6.45	10.00	0.259727	2361.15
80.00	0.007086	64.41	5.00	0.319295	2902.68
70.00	0.019968	181.53	2.50	0.372255	3384.14
60.00	0.038007	345.52	1.00	0.576051	5236.83
50.00	0.076264	693.31	0.50	0.761608	6923.71
40.00	0.114479	1040.72	0.25	0.878733	7988.48
30.00	0.154965	1408.77	0.10	1.296196	>10,000
20.00	0.196815	1789.22			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000000	0.00	10.00	0.230166	2092.41
80.00	0.000000	0.00	5.00	0.291305	2648.23
70.00	0.000000	0.00	2.50	0.347370	3157.91
60.00	0.001862	16.93	1.00	0.512211	4656.47
50.00	0.015467	140.61	0.50	0.674419	6131.08
40.00	0.042617	387.42	0.25	0.823698	7488.17
30.00	0.098825	898.41	0.10	1.165425	>10,000
20.00	0.157486	1431.69			

Nursing infants (<1 year)

Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User

Mean	0.041090	0.089279
Standard Deviation	0.155027	0.218937
Standard Error	0.012533	0.027583
Percent of aRfD	373.55	811.63

Percent of Person-Days that are User-Days = 46.02%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000265	2.41	10.00	0.235039	2136.72
80.00	0.000432	3.93	5.00	0.462269	4202.44
70.00	0.000599	5.44	2.50	0.575777	5234.33
60.00	0.000739	6.71	1.00	0.720309	6548.26
50.00	0.002139	19.44	0.50	1.201862	>10,000
40.00	0.025699	233.63	0.25	1.457694	>10,000
30.00	0.035880	326.18	0.10	1.611193	>10,000
20.00	0.133951	1217.73			

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

Nursing infants (<1 year) (cont'd)

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000000	0.00	10.00	0.117007	1063.70
80.00	0.000000	0.00	5.00	0.226307	2057.33
70.00	0.000000	0.00	2.50	0.442639	4023.99
60.00	0.000000	0.00	1.00	0.607307	5520.97
50.00	0.000000	0.00	0.50	0.711985	6472.59
40.00	0.000317	2.88	0.25	1.160263	>10,000
30.00	0.000666	6.06	0.10	1.491180	>10,000
20.00	0.017558	159.62			

Non-nursing infants (<1 yr)

Daily Exposure Analysis

(mg/kg body-weight/day)
per Capita per User

Mean	0.090599	0.117210
Standard Deviation	0.106101	0.106981
Standard Error	0.004985	0.005727
Percent of aRfD	823.63	1065.55

Percent of Person-Days that are User-Days = 77.30%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.004540	41.27	10.00	0.266561	2423.28
80.00	0.017372	157.93	5.00	0.319210	2901.91
70.00	0.030567	277.88	2.50	0.344739	3133.99
60.00	0.065580	596.18	1.00	0.388830	3534.81
50.00	0.099162	901.47	0.50	0.458960	4172.37
40.00	0.138026	1254.78	0.25	0.597808	5434.62
30.00	0.167341	1521.28	0.10	0.714409	6494.63
20.00	0.199207	1810.97			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000000	0.00	10.00	0.246777	2243.43
80.00	0.000000	0.00	5.00	0.303745	2761.32
70.00	0.004285	38.96	2.50	0.337241	3065.82
60.00	0.020508	186.43	1.00	0.380196	3456.32
50.00	0.049171	447.01	0.50	0.438361	3985.10
40.00	0.093288	848.07	0.25	0.557024	5063.85
30.00	0.141509	1286.44	0.10	0.691576	6287.06
20.00	0.180487	1640.79			

Children (1-6 years)

Daily Exposure Analysis

(mg/kg body-weight/day)

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

	per Capita	per User
Mean	0. 076911	0. 076963
Standard Deviation	0. 095999	0. 096011
Standard Error	0. 001552	0. 001553
Percent of aRfD	699. 19	699. 66

Percent of Person-Days that are User-Days = 99. 93%

Children (1- 6 years) (cont'd)

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 002466	22. 42	10. 00	0. 186067	1691. 52
80. 00	0. 006668	60. 62	5. 00	0. 243298	2211. 80
70. 00	0. 015345	139. 50	2. 50	0. 292394	2658. 13
60. 00	0. 029362	266. 92	1. 00	0. 369845	3362. 23
50. 00	0. 048144	437. 67	0. 50	0. 463264	4211. 49
40. 00	0. 072969	663. 36	0. 25	0. 600334	5457. 58
30. 00	0. 100583	914. 39	0. 10	1. 158292	>10, 000
20. 00	0. 128468	1167. 89			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 002451	22. 28	10. 00	0. 186028	1691. 16
80. 00	0. 006645	60. 41	5. 00	0. 243259	2211. 45
70. 00	0. 015303	139. 12	2. 50	0. 292360	2657. 82
60. 00	0. 029304	266. 40	1. 00	0. 369810	3361. 91
50. 00	0. 048080	437. 09	0. 50	0. 463200	4210. 91
40. 00	0. 072901	662. 74	0. 25	0. 600240	5456. 73
30. 00	0. 100527	913. 88	0. 10	1. 158038	>10, 000
20. 00	0. 128430	1167. 55			

Children (7- 12 years)

Daily Exposure Analysis

(mg/kg body-weight/day)

per Capita per User

Mean	0. 045761	0. 045793
Standard Deviation	0. 051438	0. 051441
Standard Error	0. 000877	0. 000877
Percent of aRfD	416. 01	416. 30

Percent of Person-Days that are User-Days = 99. 93%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 002122	19. 29	10. 00	0. 107799	979. 99
80. 00	0. 004653	42. 30	5. 00	0. 148127	1346. 61
70. 00	0. 009989	90. 81	2. 50	0. 187818	1707. 44

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

60.00	0.017931	163.01	1.00	0.235224	2138.40
50.00	0.030771	279.74	0.50	0.281563	2559.66
40.00	0.043396	394.51	0.25	0.323418	2940.16
30.00	0.059189	538.08	0.10	0.362523	3295.67
20.00	0.078107	710.06			

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

Children (7-12 years) (cont'd)

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.002109	19.17	10.00	0.107778	979.80
80.00	0.004638	42.17	5.00	0.148099	1346.35
70.00	0.009963	90.57	2.50	0.187790	1707.19
60.00	0.017897	162.70	1.00	0.235202	2138.20
50.00	0.030726	279.33	0.50	0.281530	2559.37
40.00	0.043361	394.19	0.25	0.323388	2939.89
30.00	0.059155	537.77	0.10	0.362505	3295.50
20.00	0.078080	709.82			

Females (13-19 yrs/np/nm)

Daily Exposure Analysis

(mg/kg body-weight/day)
per Capita per User

Mean	0.022826	0.022872
Standard Deviation	0.029898	0.029911
Standard Error	0.000719	0.000720
Percent of aRfD	207.51	207.92

Percent of Person-Days that are User-Days = 99.80%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000971	8.83	10.00	0.063344	575.85
80.00	0.001764	16.04	5.00	0.082964	754.22
70.00	0.002872	26.11	2.50	0.109497	995.42
60.00	0.004906	44.60	1.00	0.130039	1182.18
50.00	0.008774	79.76	0.50	0.137243	1247.66
40.00	0.017754	161.40	0.25	0.157145	1428.59
30.00	0.028155	255.95	0.10	0.210344	1912.22
20.00	0.041418	376.53			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000954	8.67	10.00	0.063300	575.46
80.00	0.001751	15.92	5.00	0.082925	753.86
70.00	0.002857	25.97	2.50	0.109444	994.95
60.00	0.004881	44.38	1.00	0.130012	1181.93
50.00	0.008736	79.41	0.50	0.137228	1247.53
40.00	0.017683	160.75	0.25	0.157106	1428.23
30.00	0.028093	255.39	0.10	0.210274	1911.58
20.00	0.041365	376.05			

Females (13-50 years)

Daily Exposure Analysis

(mg/kg body-weight/day)
per Capita per User

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

Mean	0. 021352	0. 021418
Standard Deviation	0. 028941	0. 028961
Standard Error	0. 000285	0. 000285
Percent of aRfD	194. 11	194. 71

Percent of Person-Days that are User-Days = 99. 69%

Females (13- 50 years) (cont'd)

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000758	6. 89	10. 00	0. 058339	530. 35
80. 00	0. 001514	13. 77	5. 00	0. 079721	724. 73
70. 00	0. 002661	24. 19	2. 50	0. 097976	890. 69
60. 00	0. 004528	41. 17	1. 00	0. 131761	1197. 82
50. 00	0. 008444	76. 76	0. 50	0. 153841	1398. 56
40. 00	0. 016260	147. 81	0. 25	0. 172411	1567. 38
30. 00	0. 025851	235. 01	0. 10	0. 227028	2063. 89
20. 00	0. 038531	350. 28			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000737	6. 70	10. 00	0. 058278	529. 80
80. 00	0. 001496	13. 60	5. 00	0. 079655	724. 14
70. 00	0. 002636	23. 96	2. 50	0. 097920	890. 18
60. 00	0. 004494	40. 85	1. 00	0. 131691	1197. 19
50. 00	0. 008383	76. 21	0. 50	0. 153773	1397. 94
40. 00	0. 016163	146. 94	0. 25	0. 172354	1566. 86
30. 00	0. 025762	234. 20	0. 10	0. 226916	2062. 87
20. 00	0. 038453	349. 57			

Males (13- 19 years)

Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User

Mean	0. 023042	0. 023048
Standard Deviation	0. 028176	0. 028178
Standard Error	0. 000721	0. 000721
Percent of aRfD	209. 47	209. 53

Percent of Person-Days that are User-Days = 99. 97%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 001230	11. 18	10. 00	0. 061535	559. 41
80. 00	0. 002051	18. 65	5. 00	0. 078502	713. 66
70. 00	0. 003592	32. 66	2. 50	0. 095061	864. 19
60. 00	0. 006272	57. 02	1. 00	0. 117685	1069. 87
50. 00	0. 010640	96. 73	0. 50	0. 156644	1424. 04

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

40.00	0.018531	168.47	0.25	0.174978	1590.71
30.00	0.030766	279.70	0.10	0.184614	1678.31
20.00	0.042982	390.75			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.001227	11.16	10.00	0.061531	559.37
80.00	0.002050	18.63	5.00	0.078498	713.62
70.00	0.003590	32.63	2.50	0.095057	864.15
60.00	0.006268	56.98	1.00	0.117681	1069.83
50.00	0.010635	96.68	0.50	0.156634	1423.95
40.00	0.018523	168.39	0.25	0.174973	1590.67
30.00	0.030757	279.61	0.10	0.184613	1678.30
20.00	0.042976	390.69			

Males (20+ years)

Daily Exposure Analysis

(mg/kg body-weight/day)
per Capita per User

Mean	0.019367	0.019396
Standard Deviation	0.025265	0.025272
Standard Error	0.000251	0.000251
Percent of aRfD	176.06	176.33

Percent of Person-Days that are User-Days = 99.85%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000906	8.24	10.00	0.050969	463.36
80.00	0.001722	15.66	5.00	0.068023	618.39
70.00	0.002801	25.47	2.50	0.083050	755.00
60.00	0.004921	44.74	1.00	0.109226	992.96
50.00	0.009221	83.83	0.50	0.132790	1207.18
40.00	0.016202	147.30	0.25	0.173635	1578.50
30.00	0.024089	218.99	0.10	0.213890	1944.45
20.00	0.034075	309.77			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000894	8.12	10.00	0.050944	463.12
80.00	0.001712	15.57	5.00	0.067997	618.15
70.00	0.002790	25.36	2.50	0.083028	754.80
60.00	0.004902	44.56	1.00	0.109199	992.72
50.00	0.009188	83.53	0.50	0.132754	1206.86
40.00	0.016160	146.91	0.25	0.173573	1577.93
30.00	0.024053	218.66	0.10	0.213849	1944.08
20.00	0.034044	309.49			

Summary calculations:

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

	95th Percentile Exposure	% aRfD	99th Percentile Exposure	% aRfD	99. 9 Percentile Exposure	% aRfD
U. S. pop - all seasons:						
	0. 108498	986. 35	0. 219073	1991. 57	0. 394057	3582. 34
All infants (<1 year):						
	0. 291305	2648. 23	0. 512211	4656. 47	1. 165425	>10000
Nursing infants (<1 year):						
	0. 226307	2057. 33	0. 607307	5520. 97	1. 491180	>10000
Non-nursing infants (<1 yr):						
	0. 303745	2761. 32	0. 380196	3456. 32	0. 691576	6287. 06
Children (1- 6 years):						
	0. 243259	2211. 45	0. 369810	3361. 91	1. 158038	>10000
Children (7- 12 years):						
	0. 148099	1346. 35	0. 235202	2138. 20	0. 362505	3295. 50
Females (13- 19 yrs/np/nn):						
	0. 082925	753. 86	0. 130012	1181. 93	0. 210274	1911. 58
Females (13- 50 years):						
	0. 079655	724. 14	0. 131691	1197. 19	0. 226916	2062. 87
Males (13- 19 years):						
	0. 078498	713. 62	0. 117681	1069. 83	0. 184613	1678. 30
Males (20+ years):						
	0. 067997	618. 15	0. 109199	992. 72	0. 213849	1944. 08

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

U. S. Environmental Protection Agency
 DEEM Acute analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201r.R91 Adjustment factor #2 NOT used.
 Analysis Date 10-07-1998 Residue file dated: 10-07-1998/11:59:35/8
 Reference dose (aRfD, Acute) .011 mg/day
 Comment: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj. Factors	
				#1	#2
007 N		BLUEBERRIES	010. 00000	01. 000	00. 250
008 A		CRANBERRIES	010. 00000	01. 000	00. 100
009 A		CRANBERRIES- JUICE	010. 00000	01. 100	00. 100
013 A		GRAPES	010. 00000	01. 000	00. 050
014 A		GRAPES- RAISINS	010. 00000	01. 000	00. 050
015 A		GRAPES- JUICE	010. 00000	00. 680	00. 050
022 K		GRAPEFRUIT- PEELED FRUIT	005. 00000	01. 000	01. 000
023 K		GRAPEFRUIT- JUICE	005. 00000	02. 100	01. 000
026 K		LEMONS- PEELED FRUIT	005. 00000	01. 000	01. 000
027 K		LEMONS- PEEL	005. 00000	01. 000	01. 000
028 K		LEMONS- JUICE	005. 00000	02. 000	01. 000
030 K		LIMES- PEELED FRUIT	005. 00000	01. 000	01. 000
031 K		LIMES- PEEL	005. 00000	01. 000	01. 000
032 K		LIMES- JUICE	005. 00000	02. 000	01. 000
033 K		ORANGES- JUICE- CONCENTRATE	005. 00000	06. 700	01. 000
034 K		ORANGES- PEELED FRUIT	005. 00000	01. 000	01. 000
035 K		ORANGES- PEEL	005. 00000	01. 000	01. 000
036 K		ORANGES- JUICE	005. 00000	01. 800	01. 000
040 R		ALMONDS	000. 10000	01. 000	00. 050
044 R		FILBERTS (HAZELNUTS)	000. 10000	01. 000	00. 060
045 R		HICKORY NUTS	000. 10000	01. 000	00. 060
047 R		PECANS	000. 10000	01. 000	00. 070
048 R		WALNUTS	000. 10000	01. 000	00. 130
050 A		PISTACHIO NUTS	000. 10000	01. 000	00. 060
052 L		APPLES	010. 00000	01. 000	00. 340
053 L		APPLES- DRIED	010. 00000	00. 095	00. 340
054 L		APPLES- JUICE/CIDER	010. 00000	00. 110	00. 340
056 L		PEARS	010. 00000	01. 000	00. 340
057 L		PEARS- DRIED	010. 00000	00. 030	00. 340
059 M		APRICOTS	005. 00000	01. 000	00. 030
060 M		APRICOTS- DRIED	005. 00000	00. 030	00. 030
061 M		CHEERRIES	010. 00000	01. 000	00. 240
062 M		CHEERRIES- DRIED	010. 00000	04. 000	00. 240
063 M		CHEERRIES- JUICE	010. 00000	00. 680	00. 240
064 M		NECTARINES	005. 00000	01. 000	00. 160
065 M		PEACHES	010. 00000	01. 000	00. 220
066 M		PEACHES- DRIED	010. 00000	00. 030	00. 220
067 M		PLUMS(DAMSONS)	005. 00000	01. 000	00. 160
068 M		PLUMS- PRUNES(DRIED)	005. 00000	00. 310	00. 080
069 M		PLUMS/PRUNE- JUICE	005. 00000	01. 400	00. 160
097 A		KIWI FRUIT	025. 00000	01. 000	00. 160
159 I		TOMATOES- WHOLE	002. 00000	01. 000	01. 000
160 I		TOMATOES- JUICE	002. 00000	01. 500	01. 000
161 I		TOMATOES- PUREE	002. 00000	03. 300	01. 000
162 I		TOMATOES- PASTE	002. 00000	05. 400	01. 000
163 I		TOMATOES- CATSUP	002. 00000	02. 500	01. 000
207 B		POTATOES/WHITE- WHOLE	000. 10000	01. 000	00. 040
208 B		POTATOES/WHITE- UNSPECIFIED	000. 10000	01. 000	00. 040
209 B		POTATOES/WHITE- PEELED	000. 10000	01. 000	00. 040
210 B		POTATOES/WHITE- DRY	000. 10000	06. 500	00. 040

Attachment 4: Acute Dietary Exposure Analysis Based on Published Tolerances/Conc. Factors.

Food Crop	Code	Grp	Food Name	RESIDUE (ppm)	Adj . Factors #1 #2
211 B			POTATOES/WHITE- PEEL ONLY	000. 100000	01. 000 00. 040
218 B			SWEET POTATOES (INCL YAMS)	010. 000000	01. 000 01. 000
238 O			CORN/SWEET	000. 500000	01. 000 01. 000
240 G			PEAS (GARDEN) - DRY	000. 500000	01. 000 00. 220
241 G			PEAS (GARDEN) - GREEN	000. 500000	01. 000 00. 020
266 O			CORN GRAIN- ENDOSPERM	000. 500000	01. 000 01. 000
267 O			CORN GRAIN- BRAN	000. 500000	01. 000 01. 000
268 O			CORN GRAIN/SUGAR/HFCS	000. 500000	01. 500 01. 000
289 O			CORN GRAIN-OIL	000. 500000	01. 000 01. 000
290 A			COTTONSEED-OIL	000. 100000	01. 000 00. 010
291 A			COTTONSEED- MEAL	000. 100000	01. 000 00. 010
315 A			GRAPES- WINE AND SHERRY	010. 000000	01. 000 00. 050
321 U			BEEF- MEAT BYPRODUCTS	000. 200000	01. 000 01. 000
322 U			BEEF- OTHER ORGAN MEATS	000. 200000	01. 000 01. 000
323 U			BEEF- DRI ED	000. 200000	01. 920 01. 000
324 U			BEEF- FAT W/O BONES	000. 200000	01. 000 01. 000
325 U			BEEF- KIDNEY	000. 200000	01. 000 01. 000
326 U			BEEF- LIVER	000. 200000	01. 000 01. 000
327 U			BEEF- LEAN(FAT/FREE) W/O BONES	000. 200000	01. 000 01. 000
328 U			GOAT- MEAT BYPRODUCTS	000. 200000	01. 000 01. 000
329 U			GOAT- OTHER ORGAN MEATS	000. 200000	01. 000 01. 000
330 U			GOAT- FAT W/O BONE	000. 200000	01. 000 01. 000
331 U			GOAT- KIDNEY	000. 200000	01. 000 01. 000
332 U			GOAT- LIVER	000. 200000	01. 000 01. 000
333 U			GOAT- LEAN (FAT/FREE) W/O BONE	000. 200000	01. 000 01. 000
334 U			HORSEMEAT	000. 200000	01. 000 01. 000
336 U			SHEEP- MEAT BYPRODUCTS	000. 200000	01. 000 01. 000
337 U			SHEEP- OTHER ORGAN MEATS	000. 200000	01. 000 01. 000
338 U			SHEEP- FAT W/O BONE	000. 200000	01. 000 01. 000
339 U			SHEEP- KIDNEY	000. 200000	01. 000 01. 000
340 U			SHEEP- LIVER	000. 200000	01. 000 01. 000
341 U			SHEEP- LEAN (FAT FREE) W/O BONE	000. 200000	01. 000 01. 000
342 U			PORK- MEAT BYPRODUCTS	000. 200000	01. 000 01. 000
343 U			PORK- OTHER ORGAN MEATS	000. 200000	01. 000 01. 000
344 U			PORK- FAT W/O BONE	000. 200000	01. 000 01. 000
345 U			PORK- KIDNEY	000. 200000	01. 000 01. 000
346 U			PORK- LIVER	000. 200000	01. 000 01. 000
347 U			PORK- LEAN (FAT FREE) W/O BONE	000. 200000	01. 000 01. 000
377 L			APPLES- JUICE- CONCENTRATE	010. 000000	00. 330 00. 340
388 O			CORN GRAIN/SUGAR- MOLASSES	000. 500000	01. 500 01. 000
389 A			CRANBERRIES- JUICE- CONCENTRATE	010. 000000	03. 300 00. 100
392 A			GRAPES- JUICE- CONCENTRATE	010. 000000	02. 040 00. 050
402 M			PEACHES- JUICE	010. 000000	01. 000 00. 220
404 L			PEARS- JUICE	010. 000000	01. 000 00. 340
410 M			APRICOT JUICE	005. 000000	01. 000 00. 030
423 I			TOMATOES- DRI ED	002. 000000	14. 300 01. 000
441 K			GRAPEFRUIT- JUICE- CONCENTRATE	005. 000000	08. 260 01. 000
442 K			LEMONS- JUICE- CONCENTRATE	005. 000000	11. 400 01. 000
443 K			LIMES- JUICE- CONCENTRATE	005. 000000	06. 000 01. 000
448 K			GRAPEFRUIT PEEL	005. 000000	01. 000 01. 000

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

U. S. Environmental Protection Agency
 DEEM ACUTE analysis for PHOSMET
 Residue file name: 059201rr.R91
 Analysis Date: 10-07-1998/14: 56: 59 Residue file dated: 10-07-1998/12: 00: 17/8
 Acute Reference Dose (aRfD) = 0.011000 mg/kg body-wt/day
 Run Comment: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)
 Based on reassessed tolerances/conc. factors

U. S. pop - all seasons	Daily Exposure Analysis 1/ (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.012570	0.012650
Standard Deviation	0.030673	0.030754
Standard Error	0.000162	0.000163
Percent of aRfD	114.28	115.00

Percent of Person-Days that are User-Days = 99.37%

Estimated percentile of user-days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000245	2.22	10.00	0.036035	327.59
80.00	0.000450	4.09	5.00	0.056896	517.24
70.00	0.000694	6.31	2.50	0.083166	756.06
60.00	0.001067	9.70	1.00	0.126400	1149.09
50.00	0.001784	16.22	0.50	0.167617	1523.79
40.00	0.003458	31.44	0.25	0.214222	1947.47
30.00	0.008730	79.37	0.10	0.264209	2401.90
20.00	0.019762	179.65			

Estimated percentile of per-capita days exceeding calculated exposure
 in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000231	2.10	10.00	0.035932	326.66
80.00	0.000439	3.99	5.00	0.056764	516.04
70.00	0.000683	6.21	2.50	0.083000	754.55
60.00	0.001053	9.57	1.00	0.126218	1147.43
50.00	0.001762	16.02	0.50	0.167357	1521.43
40.00	0.003416	31.05	0.25	0.213927	1944.80
30.00	0.008630	78.46	0.10	0.263998	2399.99
20.00	0.019622	178.38			

1/ Analysis based on all three-day participant records in CSFII 1989-92 survey.

All infants (<1 year)	Daily Exposure Analysis (mg/kg body-weight/day)	
	per Capita	per User
Mean	0.050895	0.064788
Standard Deviation	0.081332	0.086721
Standard Error	0.003304	0.003886
Percent of aRfD	462.68	588.98

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Percent of Person-Days that are User-Days = 78.56%

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

All infants (<1 year) (cont'd)

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile % aRfD	Exposure	% aRfD	Percentile % aRfD	Exposure
90. 00	0. 001350	12. 27	10. 00	0. 193282
1757. 11				
80. 00	0. 001669	15. 17	5. 00	0. 222104
2019. 12				
70. 00	0. 002924	26. 58	2. 50	0. 288078
2618. 89				
60. 00	0. 011641	105. 83	1. 00	0. 456782
4152. 57				
50. 00	0. 026611	241. 92	0. 50	0. 464942
4226. 74				
40. 00	0. 054462	495. 11	0. 25	0. 469021
4263. 83				
30. 00	0. 081311	739. 19	0. 10	0. 471469
4286. 08				
20. 00	0. 127339	1157. 63		

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile % aRfD	Exposure	% aRfD	Percentile % aRfD	Exposure
90. 00	0. 000000	0. 00	10. 00	0. 175282
1593. 47				
80. 00	0. 000000	0. 00	5. 00	0. 214236
1947. 60				
70. 00	0. 001379	12. 53	2. 50	0. 270069
2455. 17				
60. 00	0. 002123	19. 30	1. 00	0. 426082
3873. 47				

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

50. 00	0. 008461	76. 92	0. 50	0. 462715
4206. 50				
40. 00	0. 025236	229. 42	0. 25	0. 467908
4253. 71				
30. 00	0. 059324	539. 31	0. 10	0. 471024
4282. 04				
20. 00	0. 102211	929. 19		

Nursing infants (<1 year)	Dai ly Exposure Anal ysis (mg/kg body-weight/day)	per Capita	per User
Mean	0. 023567	0. 068163	
Standard Deviation	0. 077939	0. 120572	
Standard Error	0. 006301	0. 014309	
Percent of aRfD	214. 24	619. 66	

Percent of Person-Days that are User-Days = 34. 57%

Estimated percentile of user-days exceeding calculated exposure in mg/kg body-wt/day and corresponding percent of aRfD

Percentile % aRfD	Exposure	% aRfD	Percentile	Exposure
90. 00	0. 000321	2. 92	10. 00	0. 151891
1380. 82				
80. 00	0. 000964	8. 77	5. 00	0. 272148
2474. 07				
70. 00	0. 001403	12. 75	2. 50	0. 372624
3387. 49				
60. 00	0. 002176	19. 78	1. 00	0. 432910
3935. 55				
50. 00	0. 012856	116. 87	0. 50	0. 453006
4118. 23				
40. 00	0. 032367	294. 25	0. 25	0. 463054
4209. 58				
30. 00	0. 056931	517. 55	0. 10	0. 469082
4264. 38				
20. 00	0. 133323	1212. 03		

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Nursing infants (<1 year) (cont'd)

Estimated percentile of per-capita days exceeding calculated exposure

in mg/kg body-wt/day and corresponding percent of aRfD

Percentile % aRfD	Exposure	% aRfD	Percentile	Exposure
90. 00	0. 000000	0. 00	10. 00	0. 065154
592. 31				
80. 00	0. 000000	0. 00	5. 00	0. 143606
1305. 51				
70. 00	0. 000000	0. 00	2. 50	0. 218491
1986. 28				
60. 00	0. 000000	0. 00	1. 00	0. 356855
3244. 14				
50. 00	0. 000000	0. 00	0. 50	0. 414978
3772. 53				
40. 00	0. 000000	0. 00	0. 25	0. 444040
4036. 72				
30. 00	0. 000529	4. 81	0. 10	0. 461477
4195. 24				
20. 00	0. 004475	40. 68		

Non-nursing infants (<1 yr)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0. 062397	0. 064282
Standard Deviation	0. 079978	0. 080427
Standard Error	0. 003758	0. 003892
Percent of aRfD	567. 25	584. 38

Percent of Person-Days that are User-Days = 97. 07%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Percentile % aRfD	Exposure	% aRfD	Percentile	Exposure
90. 00	0. 001388	12. 62	10. 00	0. 194646
1769. 51				
80. 00	0. 001807	16. 43	5. 00	0. 233093
2119. 03				
70. 00	0. 005249	47. 72	2. 50	0. 276626
2514. 78				
60. 00	0. 012593	114. 48	1. 00	0. 316214
2874. 67				
50. 00	0. 026921	244. 74	0. 50	0. 390482
3549. 84				
40. 00	0. 056228	511. 17	0. 25	0. 452455
4113. 23				
30. 00	0. 084886	771. 69	0. 10	0. 463847
4216. 79				
20. 00	0. 125659	1142. 36		

Estimated percentile of per-capita days exceeding calculated exposure

in mg/kg body-wt/day and corresponding percent of aRfD

Percentile % aRfD	Exposure	% aRfD	Percentile	Exposure
90. 00	0. 001011	9. 19	10. 00	0. 192563
1750. 57				
80. 00	0. 001706	15. 51	5. 00	0. 231932
2108. 47				
70. 00	0. 004521	41. 10	2. 50	0. 275311
2502. 83				
60. 00	0. 011262	102. 38	1. 00	0. 315417
2867. 42				
50. 00	0. 024757	225. 07	0. 50	0. 388239
3529. 44				
40. 00	0. 052688	478. 98	0. 25	0. 450583
4096. 21				
30. 00	0. 082290	748. 09	0. 10	0. 463617
4214. 70				

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

20. 00 0. 123196 1119. 97

Children (1- 6 years)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0. 036928	0. 036984
Standard Deviation	0. 071670	0. 071710
Standard Error	0. 001159	0. 001161
Percent of aRfD	335. 71	336. 22

Percent of Person-Days that are User-Days = 99. 85%

Children (1- 6 years) (cont'd)

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 001649	14. 99	10. 00	0. 101801	925. 46
80. 00	0. 002865	26. 04	5. 00	0. 143045	1300. 41
70. 00	0. 003966	36. 05	2. 50	0. 183374	1667. 03
60. 00	0. 005931	53. 92	1. 00	0. 240642	2187. 66
50. 00	0. 009718	88. 35	0. 50	0. 290995	2645. 41
40. 00	0. 018716	170. 15	0. 25	0. 439157	3992. 33
30. 00	0. 038920	353. 82	0. 10	1. 137548	>10, 000
20. 00	0. 066264	602. 40			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 001626	14. 79	10. 00	0. 101747	924. 97
80. 00	0. 002850	25. 91	5. 00	0. 142982	1299. 84
70. 00	0. 003954	35. 95	2. 50	0. 183312	1666. 47
60. 00	0. 005913	53. 76	1. 00	0. 240584	2187. 13
50. 00	0. 009689	88. 08	0. 50	0. 290918	2644. 71
40. 00	0. 018661	169. 65	0. 25	0. 438931	3990. 28
30. 00	0. 038828	352. 98	0. 10	1. 136840	>10, 000
20. 00	0. 066180	601. 64			

Children (7- 12 years)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0. 019550	0. 019568
Standard Deviation	0. 027966	0. 027972
Standard Error	0. 000477	0. 000477

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Percent of aRfD 177.72 177.89

Percent of Person-Days that are User-Days = 99.91%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000869	7.90	10.00	0.056439	513.08
80.00	0.001359	12.36	5.00	0.075321	684.73
70.00	0.002047	18.61	2.50	0.094424	858.40
60.00	0.002881	26.19	1.00	0.118179	1074.36
50.00	0.004665	42.41	0.50	0.160700	1460.91
40.00	0.010267	93.33	0.25	0.177506	1613.69
30.00	0.024782	225.29	0.10	0.213789	1943.54
20.00	0.038301	348.19			

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Children (7-12 years) (cont'd)

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000862	7.83	10.00	0.056422	512.93
80.00	0.001356	12.33	5.00	0.075303	684.58
70.00	0.002043	18.57	2.50	0.094407	858.24
60.00	0.002877	26.15	1.00	0.118165	1074.22
50.00	0.004657	42.33	0.50	0.160661	1460.56
40.00	0.010246	93.15	0.25	0.177490	1613.55
30.00	0.024742	224.93	0.10	0.213767	1943.34
20.00	0.038276	347.96			

Females (13-19 yrs/np/nm)

Daily Exposure Analysis

(mg/kg body-weight/day)
per Capita per User

Mean	0.006100	0.006118
Standard Deviation	0.011625	0.011637
Standard Error	0.000279	0.000280
Percent of aRfD	55.45	55.62

Percent of Person-Days that are User-Days = 99.70%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000224	2.04	10.00	0.023685	215.32
80.00	0.000428	3.89	5.00	0.031859	289.63
70.00	0.000626	5.69	2.50	0.041854	380.49
60.00	0.000857	7.79	1.00	0.055080	500.73
50.00	0.001178	10.71	0.50	0.062928	572.08
40.00	0.001673	15.21	0.25	0.069479	631.63
30.00	0.002809	25.54	0.10	0.075479	686.17
20.00	0.006929	62.99			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000218	1.98	10.00	0.023635	214.86
80.00	0.000424	3.85	5.00	0.031834	289.40
70.00	0.000622	5.65	2.50	0.041824	380.22
60.00	0.000853	7.75	1.00	0.055054	500.49
50.00	0.001173	10.67	0.50	0.062905	571.86
40.00	0.001667	15.16	0.25	0.069459	631.45
30.00	0.002799	25.44	0.10	0.075467	686.06
20.00	0.006904	62.76			

Females (13-50 years)

Daily Exposure Analysis

(mg/kg body-weight/day)

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

	per Capita	per User
Mean	0. 008003	0. 008042
Standard Deviation	0. 016071	0. 016101
Standard Error	0. 000158	0. 000159
Percent of aRfD	72. 75	73. 11

Percent of Person-Days that are User-Days = 99. 52%

Females (13- 50 years) (cont'd)

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000174	1. 58	10. 00	0. 026476	240. 69
80. 00	0. 000330	3. 00	5. 00	0. 039192	356. 29
70. 00	0. 000509	4. 62	2. 50	0. 053884	489. 85
60. 00	0. 000715	6. 50	1. 00	0. 075059	682. 36
50. 00	0. 001034	9. 40	0. 50	0. 097031	882. 10
40. 00	0. 001701	15. 46	0. 25	0. 120732	1097. 57
30. 00	0. 003926	35. 69	0. 10	0. 146153	1328. 66
20. 00	0. 013177	119. 79			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000166	1. 51	10. 00	0. 026412	240. 11
80. 00	0. 000324	2. 94	5. 00	0. 039130	355. 73
70. 00	0. 000502	4. 57	2. 50	0. 053812	489. 20
60. 00	0. 000709	6. 45	1. 00	0. 074990	681. 73
50. 00	0. 001026	9. 33	0. 50	0. 096924	881. 13
40. 00	0. 001688	15. 35	0. 25	0. 120617	1096. 52
30. 00	0. 003893	35. 39	0. 10	0. 146070	1327. 91
20. 00	0. 013087	118. 97			

Males (13- 19 years)

Daily Exposure Analysis

(mg/kg body-weight/day)

per Capita per User

Mean	0. 006648	0. 006654
Standard Deviation	0. 012095	0. 012099
Standard Error	0. 000310	0. 000310
Percent of aRfD	60. 44	60. 49

Percent of Person-Days that are User-Days = 99. 92%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000311	2. 83	10. 00	0. 022368	203. 34
80. 00	0. 000544	4. 94	5. 00	0. 030855	280. 50
70. 00	0. 000843	7. 66	2. 50	0. 039286	357. 14

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

60.00	0.001184	10.76	1.00	0.055729	506.62
50.00	0.001552	14.11	0.50	0.061232	556.66
40.00	0.002094	19.04	0.25	0.090159	819.63
30.00	0.003395	30.87	0.10	0.104936	953.96
20.00	0.010536	95.79			

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Males (13- 19 years) (cont' d)

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000309	2.81	10.00	0.022358	203.26
80.00	0.000542	4.93	5.00	0.030848	280.44
70.00	0.000841	7.65	2.50	0.039279	357.08
60.00	0.001182	10.75	1.00	0.055720	506.55
50.00	0.001550	14.09	0.50	0.061228	556.62
40.00	0.002092	19.02	0.25	0.090136	819.42
30.00	0.003392	30.84	0.10	0.104928	953.89
20.00	0.010525	95.68			

Males (20+ years)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0.007531	0.007555
Standard Deviation	0.013875	0.013891
Standard Error	0.000138	0.000138
Percent of aRfD	68.46	68.68

Percent of Person-Days that are User-Days = 99.68%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000210	1.91	10.00	0.025297	229.97
80.00	0.000358	3.26	5.00	0.036426	331.14
70.00	0.000538	4.89	2.50	0.047726	433.88
60.00	0.000747	6.79	1.00	0.063348	575.89
50.00	0.001084	9.86	0.50	0.075682	688.02
40.00	0.001809	16.44	0.25	0.090976	827.06
30.00	0.004288	38.98	0.10	0.106287	966.24
20.00	0.013450	122.27			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000204	1.86	10.00	0.025259	229.62
80.00	0.000355	3.22	5.00	0.036390	330.82
70.00	0.000534	4.85	2.50	0.047690	433.55
60.00	0.000743	6.76	1.00	0.063315	575.59
50.00	0.001079	9.81	0.50	0.075643	687.66
40.00	0.001800	16.36	0.25	0.090927	826.61
30.00	0.004264	38.77	0.10	0.106254	965.94
20.00	0.013391	121.74			

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

Summary calculations:

	95th Percentile Exposure	% aRfD	99th Percentile Exposure	% aRfD	99. 9 Percentile Exposure	% aRfD
U. S. pop - all seasons:						
	0. 056764	516. 04	0. 126218	1147. 43	0. 263998	2399. 99
All infants (<1 year):						
	0. 214236	1947. 60	0. 426082	3873. 47	0. 471024	4282. 04
Nursing infants (<1 year):						
	0. 143606	1305. 51	0. 356855	3244. 14	0. 461477	4195. 24
Non-nursing infants (<1 yr):						
	0. 231932	2108. 47	0. 315417	2867. 42	0. 463617	4214. 70
Children (1- 6 years):						
	0. 142982	1299. 84	0. 240584	2187. 13	1. 136840	>10000
Children (7- 12 years):						
	0. 075303	684. 58	0. 118165	1074. 22	0. 213767	1943. 34
Females (13- 19 yrs/np/nn):						
	0. 031834	289. 40	0. 055054	500. 49	0. 075467	686. 06
Females (13- 50 years):						
	0. 039130	355. 73	0. 074990	681. 73	0. 146070	1327. 91
Males (13- 19 years):						
	0. 030848	280. 44	0. 055720	506. 55	0. 104928	953. 89
Males (20+ years):						
	0. 036390	330. 82	0. 063315	575. 59	0. 106254	965. 94

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

U. S. Environmental Protection Agency
 DEM Acute analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201rr.R91 Adjustment factor #2 NOT used.
 Analysis Date 10-07-1998 Residue file dated: 10-07-1998/12:00:17/8
 Reference dose (aRfD, Acute) .011 mg/day
 Comment: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj. Factors	
				#1	#2
007 N		BLUEBERRIES	010. 00000	01. 000	00. 250
008 A		CRANBERRIES	010. 00000	01. 000	00. 100
009 A		CRANBERRIES- JUICE	010. 00000	01. 100	00. 100
013 A		GRAPES	010. 00000	01. 000	00. 050
014 A		GRAPES- RAISINS	010. 00000	01. 000	00. 050
015 A		GRAPES- JUICE	010. 00000	00. 680	00. 050
040 R		ALMONDS	000. 10000	01. 000	00. 050
044 R		FILBERTS (HAZELNUTS)	000. 10000	01. 000	00. 060
045 R		HICKORY NUTS	000. 10000	01. 000	00. 060
047 R		PECANS	000. 10000	01. 000	00. 070
048 R		WALNUTS	000. 10000	01. 000	00. 130
050 A		PISTACHIO NUTS	000. 10000	01. 000	00. 060
052 L		APPLES	010. 00000	01. 000	00. 340
053 L		APPLES- DRIED	010. 00000	00. 095	00. 340
054 L		APPLES- JUICE/CIDER	010. 00000	00. 110	00. 340
056 L		PEARS	010. 00000	01. 000	00. 340
057 L		PEARS- DRIED	010. 00000	00. 095	00. 340
059 M		APRICOTS	005. 00000	01. 000	00. 030
060 M		APRICOTS- DRIED	005. 00000	00. 030	00. 030
061 M		CERRIES	010. 00000	01. 000	00. 240
062 M		CERRIES- DRIED	010. 00000	04. 000	00. 240
063 M		CERRIES- JUICE	010. 00000	00. 680	00. 240
064 M		NECTARINES	005. 00000	01. 000	00. 160
065 M		PEACHES	010. 00000	01. 000	00. 220
066 M		PEACHES- DRIED	010. 00000	00. 030	00. 220
067 M		PLUMS(DAMSONS)	005. 00000	01. 000	00. 160
068 M		PLUMS- PRUNES(DRIED)	005. 00000	00. 310	00. 080
069 M		PLUMS/PRUNE- JUICE	005. 00000	01. 400	00. 160
097 A		KIWI FRUIT	025. 00000	01. 000	00. 160
207 B		POTATOES/WHITE- WHOLE	000. 10000	01. 000	00. 040
208 B		POTATOES/WHITE- UNSPECIFIED	000. 10000	01. 000	00. 040
209 B		POTATOES/WHITE- PEELED	000. 10000	01. 000	00. 040
210 B		POTATOES/WHITE- DRY	000. 10000	06. 500	00. 040
211 B		POTATOES/WHITE- PEEL ONLY	000. 10000	01. 000	00. 040
218 B		SWEET POTATOES (INCL YAMS)	010. 00000	01. 000	01. 000
240 G		PEAS (GARDEN)- DRY	000. 50000	01. 000	00. 220
241 G		PEAS (GARDEN)- GREEN	001. 00000	01. 000	00. 020
290 A		COTTONSEED- OIL	000. 20000	01. 000	00. 010
291 A		COTTONSEED- MEAL	000. 10000	01. 000	00. 010
315 A		GRAPES- WINE AND SHERRY	010. 00000	01. 000	00. 050
318 X		MILK- NONFAT SOLIDS	000. 10000	01. 000	01. 000
319 X		MILK- FAT SOLIDS	000. 10000	01. 000	01. 000
320 X		MILK SUGAR (LACTOSE)	000. 10000	01. 000	01. 000
321 U		BEEF- MEAT BYPRODUCTS	000. 10000	01. 000	01. 000
322 U		BEEF- OTHER ORGAN MEATS	000. 10000	01. 000	01. 000
323 U		BEEF- DRIED	000. 10000	01. 920	01. 000
324 U		BEEF- FAT W/O BONES	000. 20000	01. 000	01. 000
325 U		BEEF- KIDNEY	000. 10000	01. 000	01. 000
326 U		BEEF- LIVER	000. 10000	01. 000	01. 000
327 U		BEEF- LEAN(FAT/FREE) W/O BONES	000. 10000	01. 000	01. 000

Attachment 5: Acute Dietary Exposure Analysis Based on Reassessed Tolerances/Conc. Factors.

328 U	GOAT- MEAT BYPRODUCTS	000. 100000	01. 000 01. 000
329 U	GOAT- OTHER ORGAN MEATS	000. 100000	01. 000 01. 000
330 U	GOAT- FAT W/O BONE	000. 100000	01. 000 01. 000
331 U	GOAT- KIDNEY	000. 100000	01. 000 01. 000
332 U	GOAT- LIVER	000. 100000	01. 000 01. 000
333 U	GOAT- LEAN (FAT/FREE) W/O BONE	000. 100000	01. 000 01. 000
334 U	HORSEMEAT	000. 100000	01. 000 01. 000
336 U	SHEEP- MEAT BYPRODUCTS	000. 100000	01. 000 01. 000

Food Crop Code	Crop Grp	Food Name	RESIDUE (ppm)	Adj . Factors #1 #2
337 U		SHEEP- OTHER ORGAN MEATS	000. 100000	01. 000 01. 000
338 U		SHEEP- FAT W/O BONE	000. 100000	01. 000 01. 000
339 U		SHEEP- KIDNEY	000. 100000	01. 000 01. 000
340 U		SHEEP- LIVER	000. 100000	01. 000 01. 000
341 U		SHEEP- LEAN (FAT FREE) W/O BONE	000. 100000	01. 000 01. 000
342 U		PORK- MEAT BYPRODUCTS	000. 040000	01. 000 01. 000
343 U		PORK- OTHER ORGAN MEATS	000. 040000	01. 000 01. 000
344 U		PORK- FAT W/O BONE	000. 200000	01. 000 01. 000
345 U		PORK- KIDNEY	000. 040000	01. 000 01. 000
346 U		PORK- LIVER	000. 040000	01. 000 01. 000
347 U		PORK- LEAN (FAT FREE) W/O BONE	000. 040000	01. 000 01. 000
377 L		APPLES- JUICE- CONCENTRATE	010. 000000	00. 330 00. 340
389 A		CRANBERRIES- JUICE- CONCENTRATE	010. 000000	03. 300 00. 100
392 A		GRAPES- JUICE- CONCENTRATE	010. 000000	02. 040 00. 050
398 X		MILK- BASED WATER	000. 100000	01. 000 01. 000
402 M		PEACHES- JUICE	010. 000000	01. 000 00. 220
404 L		PEARS- JUICE	010. 000000	00. 110 00. 340
405 G		PEAS- SUCCUL. /BLACKEYE/COWPEA	001. 000000	01. 000 00. 020
410 M		APRICOT JUICE	005. 000000	01. 000 00. 030

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

U. S. Environmental Protection Agency
 DEM ACUTE analysis for PHOSMET
 Residue file name: 059201rc.R91
 Analysis Date: 10-07-1998/13: 10: 16 Residue file dated: 10-07-1998/11: 56: 09/8
 Acute Reference Dose (aRfD) = 0.011000 mg/kg body-wt/day
 MC iterations = 500 MC list in residue file MC seed = 1026
 Run Comment: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)
 Based on reassessed tolerance/blended ARs/ %CT RDF files
 =====

U. S. pop - all seasons	Daily Exposure Analysis 1/ (mg/kg body-weight/day) per Capita per User	
Mean	0.004273	0.004300
Standard Deviation	0.013967	0.014006
Percent of aRfD	38.85	39.09

Percent of Person-Days that are User-Days = 99.37%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000021	0.19	10.00	0.012446	113.15
80.00	0.000062	0.56	5.00	0.026970	245.19
70.00	0.000110	1.00	2.50	0.041464	376.95
60.00	0.000166	1.51	1.00	0.068026	618.42
50.00	0.000235	2.14	0.50	0.089058	809.62
40.00	0.000342	3.11	0.25	0.112663	1024.21
30.00	0.000582	5.29	0.10	0.153767	1397.88
20.00	0.001662	15.11			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000020	0.18	10.00	0.012378	112.53
80.00	0.000059	0.54	5.00	0.026879	244.35
70.00	0.000108	0.98	2.50	0.041372	376.11
60.00	0.000164	1.49	1.00	0.067914	617.40
50.00	0.000233	2.12	0.50	0.088925	808.41
40.00	0.000339	3.08	0.25	0.112514	1022.85
30.00	0.000577	5.25	0.10	0.153594	1396.30
20.00	0.001648	14.98			

1/ Analysis based on all three-day participant records in CSFII 1989-92 survey.

All infants (<1 year)	Daily Exposure Analysis (mg/kg body-weight/day) per Capita per User	
Mean	0.014837	0.018887
Standard Deviation	0.038535	0.042589
Percent of aRfD	134.88	171.70

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

Percent of Person-Days that are User-Days = 78.56%

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

All infants (<1 year) (cont'd)

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000012	0.11	10.00	0.073051	664.10
80.00	0.000025	0.23	5.00	0.111925	1017.50
70.00	0.000038	0.35	2.50	0.136716	1242.87
60.00	0.000051	0.47	1.00	0.212793	1934.49
50.00	0.000214	1.94	0.50	0.242163	2201.48
40.00	0.000488	4.44	0.25	0.255412	2321.93
30.00	0.003264	29.67	0.10	0.315348	2866.80
20.00	0.023881	217.10			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000000	0.00	10.00	0.059629	542.09
80.00	0.000000	0.00	5.00	0.101314	921.04
70.00	0.000013	0.12	2.50	0.129949	1181.36
60.00	0.000030	0.27	1.00	0.198949	1808.63
50.00	0.000047	0.42	0.50	0.234146	2128.60
40.00	0.000199	1.81	0.25	0.251796	2289.05
30.00	0.000991	9.01	0.10	0.304441	2767.64
20.00	0.012625	114.77			

Nursing infants (<1 year)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0.003586	0.010371
Standard Deviation	0.020614	0.034039
Percent of aRfD	32.60	94.28

Percent of Person-Days that are User-Days = 34.57%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000006	0.05	10.00	0.036166	328.78
80.00	0.000019	0.17	5.00	0.076173	692.48
70.00	0.000032	0.29	2.50	0.115416	1049.23
60.00	0.000046	0.42	1.00	0.135126	1228.42
50.00	0.000059	0.54	0.50	0.147647	1342.24
40.00	0.000112	1.02	0.25	0.280506	2550.05
30.00	0.000491	4.47	0.10	0.405260	3684.19
20.00	0.000911	8.29			

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

Nursing infants (<1 year) (cont'd)

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000000	0.00	10.00	0.000537	4.88
80.00	0.000000	0.00	5.00	0.020436	185.78
70.00	0.000000	0.00	2.50	0.058323	530.21
60.00	0.000000	0.00	1.00	0.109257	993.24
50.00	0.000000	0.00	0.50	0.129263	1175.12
40.00	0.000000	0.00	0.25	0.142060	1291.46
30.00	0.000010	0.09	0.10	0.259654	2360.49
20.00	0.000049	0.44			

Non-nursing infants (<1 yr)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0.019573	0.020164
Standard Deviation	0.043074	0.043584
Percent of aRfD	177.94	183.31

Percent of Person-Days that are User-Days = 97.07%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000012	0.11	10.00	0.074869	680.63
80.00	0.000026	0.23	5.00	0.113224	1029.31
70.00	0.000039	0.35	2.50	0.146284	1329.86
60.00	0.000052	0.47	1.00	0.213821	1943.82
50.00	0.000236	2.15	0.50	0.242004	2200.04
40.00	0.000547	4.97	0.25	0.265083	2409.85
30.00	0.005791	52.64	0.10	0.287334	2612.13
20.00	0.027570	250.63			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000009	0.08	10.00	0.073441	667.64
80.00	0.000022	0.20	5.00	0.112066	1018.78
70.00	0.000036	0.33	2.50	0.145286	1320.78
60.00	0.000049	0.45	1.00	0.212461	1931.46
50.00	0.000208	1.89	0.50	0.241153	2192.30
40.00	0.000510	4.63	0.25	0.264386	2403.51
30.00	0.005315	48.32	0.10	0.286886	2608.05
20.00	0.026254	238.67			

Children (1-6 years)

Daily Exposure Analysis

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

	(mg/kg body-weight/day)	
	per Capita	per User
Mean	0.008268	0.008281
Standard Deviation	0.025764	0.025782
Percent of aRfD	75.17	75.28

Percent of Person-Days that are User-Days = 99.85%

Children (1-6 years) (cont'd)

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000087	0.79	10.00	0.019774	179.76
80.00	0.000176	1.60	5.00	0.060292	548.11
70.00	0.000286	2.60	2.50	0.086581	786.10
60.00	0.000386	3.51	1.00	0.123166	1119.69
50.00	0.000526	4.78	0.50	0.167682	1524.39
40.00	0.000709	6.44	0.25	0.192532	1750.29
30.00	0.001134	10.31	0.10	0.255347	2321.34
20.00	0.003044	27.67			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000086	0.78	10.00	0.019749	179.53
80.00	0.000175	1.59	5.00	0.060230	547.55
70.00	0.000285	2.59	2.50	0.086541	786.74
60.00	0.000385	3.50	1.00	0.123129	1119.36
50.00	0.000524	4.77	0.50	0.167615	1523.77
40.00	0.000708	6.43	0.25	0.192494	1749.95
30.00	0.001132	10.29	0.10	0.255283	2320.76
20.00	0.003038	27.62			

Children (7-12 years)

Daily Exposure Analysis
(mg/kg body-weight/day)

	per Capita	per User
Mean	0.005503	0.005508
Standard Deviation	0.015635	0.015642
Percent of aRfD	50.02	50.07

Percent of Person-Days that are User-Days = 99.91%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000055	0.50	10.00	0.018764	170.58
80.00	0.000129	1.17	5.00	0.037900	344.54

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

70. 00	0. 000203	1. 85	2. 50	0. 051597	469. 06
60. 00	0. 000275	2. 50	1. 00	0. 073543	668. 57
50. 00	0. 000373	3. 39	0. 50	0. 092669	842. 44
40. 00	0. 000528	4. 80	0. 25	0. 114958	1045. 07
30. 00	0. 000873	7. 94	0. 10	0. 156222	1420. 20
20. 00	0. 002292	20. 84			

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

Children (7-12 years) (cont'd)

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000054	0.49	10.00	0.018749	170.45
80.00	0.000128	1.17	5.00	0.037882	344.38
70.00	0.000203	1.84	2.50	0.051584	468.95
60.00	0.000275	2.50	1.00	0.073530	668.45
50.00	0.000373	3.39	0.50	0.092651	842.28
40.00	0.000527	4.79	0.25	0.114938	1044.89
30.00	0.000872	7.93	0.10	0.156196	1419.97
20.00	0.002290	20.82			

Females (13-19 yrs/np/nn)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0.001759	0.001765
Standard Deviation	0.006012	0.006020
Percent of aRfD	15.99	16.04

Percent of Person-Days that are User-Days = 99.70%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000020	0.18	10.00	0.002424	22.03
80.00	0.000052	0.47	5.00	0.009635	87.59
70.00	0.000093	0.85	2.50	0.022625	205.68
60.00	0.000133	1.21	1.00	0.031108	282.80
50.00	0.000183	1.66	0.50	0.039577	359.79
40.00	0.000246	2.24	0.25	0.049410	449.18
30.00	0.000342	3.11	0.10	0.056588	514.44
20.00	0.000574	5.22			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000019	0.17	10.00	0.002418	21.98
80.00	0.000051	0.47	5.00	0.009614	87.40
70.00	0.000092	0.84	2.50	0.022585	205.32
60.00	0.000133	1.21	1.00	0.031091	282.64
50.00	0.000182	1.66	0.50	0.039551	359.56
40.00	0.000245	2.23	0.25	0.049380	448.91
30.00	0.000341	3.10	0.10	0.056573	514.30
20.00	0.000572	5.20			

Females (13-50 years)

Daily Exposure Analysis

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

	(mg/kg body-weight/day)	
	per Capita	per User
Mean	0.003420	0.003437
Standard Deviation	0.011356	0.011382
Percent of aRfD	31.09	31.24

Percent of Person-Days that are User-Days = 99.52%

Females (13- 50 years) (cont'd)

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000014	0.12	10.00	0.008140	74.00
80.00	0.000040	0.37	5.00	0.023429	212.99
70.00	0.000081	0.73	2.50	0.035916	326.51
60.00	0.000123	1.12	1.00	0.056828	516.62
50.00	0.000176	1.60	0.50	0.077454	704.13
40.00	0.000249	2.27	0.25	0.094097	855.43
30.00	0.000386	3.51	0.10	0.120253	1093.21
20.00	0.001143	10.39			

Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000013	0.12	10.00	0.008106	73.69
80.00	0.000039	0.36	5.00	0.023355	212.32
70.00	0.000079	0.72	2.50	0.035855	325.95
60.00	0.000122	1.11	1.00	0.056760	516.00
50.00	0.000175	1.59	0.50	0.077354	703.22
40.00	0.000248	2.25	0.25	0.094016	854.69
30.00	0.000384	3.49	0.10	0.120168	1092.44
20.00	0.001136	10.32			

Males (13- 19 years)

Daily Exposure Analysis
(mg/kg body-weight/day)

	per Capita	per User
Mean	0.001978	0.001979
Standard Deviation	0.006482	0.006485
Percent of aRfD	17.98	17.99

Percent of Person-Days that are User-Days = 99.92%

Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90.00	0.000028	0.26	10.00	0.002819	25.62
80.00	0.000084	0.77	5.00	0.014514	131.94

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

70. 00	0. 000128	1. 16	2. 50	0. 023089	209. 90
60. 00	0. 000174	1. 58	1. 00	0. 030418	276. 53
50. 00	0. 000221	2. 01	0. 50	0. 039626	360. 23
40. 00	0. 000284	2. 58	0. 25	0. 047282	429. 83
30. 00	0. 000370	3. 36	0. 10	0. 060867	553. 34
20. 00	0. 000548	4. 98			

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

Males (13- 19 years) (cont' d)

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000028	0. 26	10. 00	0. 002817	25. 61
80. 00	0. 000084	0. 76	5. 00	0. 014505	131. 86
70. 00	0. 000128	1. 16	2. 50	0. 023082	209. 83
60. 00	0. 000174	1. 58	1. 00	0. 030415	276. 50
50. 00	0. 000220	2. 00	0. 50	0. 039618	360. 17
40. 00	0. 000284	2. 58	0. 25	0. 047276	429. 78
30. 00	0. 000370	3. 36	0. 10	0. 060860	553. 27
20. 00	0. 000548	4. 98			

Males (20+ years)

**Daily Exposure Analysis
(mg/kg body-weight/day)
per Capita per User**

Mean	0. 003366	0. 003376
Standard Deviation	0. 009525	0. 009538
Percent of aRfD	30. 60	30. 69

Percent of Person-Days that are User-Days = 99. 68%

**Estimated percentile of user-days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000022	0. 20	10. 00	0. 011440	104. 00
80. 00	0. 000064	0. 58	5. 00	0. 022576	205. 24
70. 00	0. 000111	1. 01	2. 50	0. 033000	300. 00
60. 00	0. 000159	1. 45	1. 00	0. 049664	451. 49
50. 00	0. 000220	2. 00	0. 50	0. 060772	552. 47
40. 00	0. 000305	2. 77	0. 25	0. 070875	644. 32
30. 00	0. 000472	4. 29	0. 10	0. 086292	784. 47
20. 00	0. 001368	12. 43			

**Estimated percentile of per-capita days exceeding calculated exposure
in mg/kg body-wt/day and corresponding percent of aRfD**

Percentile	Exposure	% aRfD	Percentile	Exposure	% aRfD
90. 00	0. 000021	0. 19	10. 00	0. 011408	103. 71
80. 00	0. 000063	0. 57	5. 00	0. 022541	204. 92
70. 00	0. 000110	1. 00	2. 50	0. 032967	299. 70
60. 00	0. 000159	1. 44	1. 00	0. 049629	451. 17
50. 00	0. 000219	1. 99	0. 50	0. 060736	552. 15
40. 00	0. 000303	2. 76	0. 25	0. 070843	644. 03
30. 00	0. 000471	4. 28	0. 10	0. 086259	784. 17
20. 00	0. 001362	12. 38			

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

Summary calculations:

	95th Percentile Exposure	% aRfD	99th Percentile Exposure	% aRfD	99. 9 Percentile Exposure	% aRfD
U. S. pop - all seasons:						
	0. 026879	244. 35	0. 067914	617. 40	0. 153594	1396. 30
All infants (<1 year):						
	0. 101314	921. 04	0. 198949	1808. 63	0. 304441	2767. 64
Nursing infants (<1 year):						
	0. 020436	185. 78	0. 109257	993. 24	0. 259654	2360. 49
Non-nursing infants (<1 yr):						
	0. 112066	1018. 78	0. 212461	1931. 46	0. 286886	2608. 05
Children (1-6 years):						
	0. 060230	547. 55	0. 123129	1119. 36	0. 255283	2320. 76
Children (7-12 years):						
	0. 037882	344. 38	0. 073530	668. 45	0. 156196	1419. 97
Females (13-19 yrs/np/nn):						
	0. 009614	87. 40	0. 031091	282. 64	0. 056573	514. 30
Females (13-50 years):						
	0. 023355	212. 32	0. 056760	516. 00	0. 120168	1092. 44
Males (13-19 years):						
	0. 014505	131. 86	0. 030415	276. 50	0. 060860	553. 27
Males (20+ years):						
	0. 022541	204. 92	0. 049629	451. 17	0. 086259	784. 17

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

U. S. Environmental Protection Agency
 DEM Acute analysis for PHOSMET
 Residue file name: C:\DRESSAC\059201rc.R91 Adjustment factor #2 NOT used.
 Analysis Date 10-07-1998 Residue file dated: 10-07-1998/11:56:09/8
 Reference dose (aRfD, Acute) .011 mg/day
 Comment: RfD incorporates UF of 100X (10X for intra- and 10X for inter-)

RDF indices and file names for Monte Carlo Analysis

- 1 C:\DRESSAC\Apl.pr. rdf
- 2 C:\DRESSAC\Grape. rdf
- 3 C:\DRESSAC\Peach. rdf
- 4 C:\DRESSAC\Potato. rdf
- 5 C:\DRESSAC\Apr. rdf
- 6 C:\DRESSAC\Nectpl. rdf

Food Code	Crop Grp	Food Name	RESIDUE (ppm)	RDF #	Adj. Factors #1	#2
007 N		BLUEBERRIES	010. 000000		01. 000 00. 250	
008 A		CRANBERRIES	010. 000000		01. 000 00. 100	
009 A		CRANBERRIES- JUICE	010. 000000		01. 100 00. 100	
013 A		GRAPES	010. 000000	2	01. 000 00. 050	
014 A		GRAPES- RAISINS	010. 000000	2	01. 000 00. 050	
015 A		GRAPES- JUICE	000. 004000		01. 000 00. 050	
040 R		ALMONDS	000. 100000		01. 000 00. 050	
044 R		FILBERTS (HAZELNUTS)	000. 100000		01. 000 00. 060	
045 R		HICKORY NUTS	000. 100000		01. 000 00. 060	
047 R		PECANS	000. 100000		01. 000 00. 070	
048 R		WALNUTS	000. 100000		01. 000 00. 130	
050 A		PISTACHIO NUTS	000. 100000		01. 000 00. 060	
052 L		APPLES	010. 000000	1	01. 000 00. 340	
053 L		APPLES- DRIED	010. 000000	1	00. 095 00. 340	
054 L		APPLES- JUICE/ CIDER	000. 003000		01. 000 00. 340	
056 L		PEARS	010. 000000	1	01. 000 00. 340	
057 L		PEARS- DRIED	010. 000000	1	00. 095 00. 340	
059 M		APRICOTS	005. 000000	5	01. 000 00. 030	
060 M		APRICOTS- DRIED	005. 000000	5	00. 030 00. 030	
061 M		CHERRIES	010. 000000		01. 000 00. 240	
062 M		CHERRIES- DRIED	010. 000000		04. 000 00. 240	
063 M		CHERRIES- JUICE	005. 200000		00. 680 00. 240	
064 M		NECTARINES	005. 000000	6	01. 000 00. 160	
065 M		PEACHES	010. 000000	3	01. 000 00. 220	
066 M		PEACHES- DRIED	010. 000000	3	00. 030 00. 220	
067 M		PLUMS(DAMSONS)	005. 000000	6	01. 000 00. 160	
068 M		PLUMS- PRUNES(DRIED)	005. 000000	6	00. 310 00. 080	
069 M		PLUMS/PRUNE- JUICE	000. 050000		01. 000 00. 160	
097 A		KIWI FRUIT	025. 000000		01. 000 00. 160	
207 B		POTATOES/WHITE- WHOLE	000. 100000	4	01. 000 00. 040	
208 B		POTATOES/WHITE- UNSPECIFIED	000. 100000	4	01. 000 00. 040	
209 B		POTATOES/WHITE- PEELED	000. 100000	4	01. 000 00. 040	
210 B		POTATOES/WHITE- DRY	000. 100000	4	06. 500 00. 040	
211 B		POTATOES/WHITE- PEEL ONLY	000. 100000	4	01. 000 00. 040	
218 B		SWEET POTATOES (INCL YAMS)	010. 000000		01. 000 01. 000	
240 G		PEAS (GARDEN)- DRY	000. 500000		01. 000 00. 220	
241 G		PEAS (GARDEN)- GREEN	001. 000000		01. 000 00. 020	
290 A		COTTONSEED- OIL	000. 200000		01. 000 00. 010	
291 A		COTTONSEED- MEAL	000. 100000		01. 000 00. 010	
315 A		GRAPES- WINE AND SHERRY	010. 000000		01. 000 00. 050	

Attachment 6: Acute Exposure Analysis Based on Reassessed Tolerances, Concentration Factors, Anticipated Residues (blended commodities), and %CT (RDF Files).

318 X	MILK-NONFAT SOLIDS	000.001500	01.000 01.000
319 X	MILK-FAT SOLIDS	000.001500	01.000 01.000
320 X	MILK SUGAR (LACTOSE)	000.001500	01.000 01.000
321 U	BEEF-MEAT BYPRODUCTS	000.100000	01.000 01.000
322 U	BEEF-OTHER ORGAN MEATS	000.100000	01.000 01.000
323 U	BEEF-DRIED	000.100000	01.920 01.000
324 U	BEEF-FAT W/O BONES	000.200000	01.000 01.000
325 U	BEEF-KIDNEY	000.100000	01.000 01.000
Food Crop Code	Food Name Grp	RESIDUE (ppm)	RDF Adj. Factors # #1 #2
326 U	BEEF-LIVER	000.100000	01.000 01.000
327 U	BEEF-LEAN(FAT/FREE)W/O BONES	000.100000	01.000 01.000
328 U	GOAT-MEAT BYPRODUCTS	000.100000	01.000 01.000
329 U	GOAT-OTHER ORGAN MEATS	000.100000	01.000 01.000
330 U	GOAT-FAT W/O BONE	000.100000	01.000 01.000
331 U	GOAT-KIDNEY	000.100000	01.000 01.000
332 U	GOAT-LIVER	000.100000	01.000 01.000
333 U	GOAT-LEAN (FAT/FREE) W/O BONE	000.100000	01.000 01.000
334 U	HORSEMEAT	000.100000	01.000 01.000
336 U	SHEEP-MEAT BYPRODUCTS	000.100000	01.000 01.000
337 U	SHEEP-OTHER ORGAN MEATS	000.100000	01.000 01.000
338 U	SHEEP-FAT W/O BONE	000.100000	01.000 01.000
339 U	SHEEP-KIDNEY	000.100000	01.000 01.000
340 U	SHEEP-LIVER	000.100000	01.000 01.000
341 U	SHEEP-LEAN (FAT FREE) W/O BONE	000.100000	01.000 01.000
342 U	PORK-MEAT BYPRODUCTS	000.040000	01.000 01.000
343 U	PORK- OTHER ORGAN MEATS	000.040000	01.000 01.000
344 U	PORK-FAT W/O BONE	000.200000	01.000 01.000
345 U	PORK-KIDNEY	000.040000	01.000 01.000
346 U	PORK-LIVER	000.040000	01.000 01.000
347 U	PORK-LEAN (FAT FREE) W/O BONE	000.040000	01.000 01.000
377 L	APPLES-JUICE-CONCENTRATE	000.003000	00.330 00.340
389 A	CRANBERRIES-JUICE-CONCENTRATE	010.000000	03.300 00.100
392 A	GRAPES-JUICE-CONCENTRATE	000.004000	02.040 00.050
398 X	MILK-BASED WATER	000.001500	01.000 01.000
402 M	PEACHES-JUICE	000.050000	01.000 00.220
404 L	PEARS-JUICE	000.003000	01.000 00.340
405 G	PEAS-SUCCUL./BLACKEYE/COWPEA	001.000000	01.000 00.020
410 M	APRICOT JUICE	000.050000	01.000 00.030

Summary of Residue Distribution Files (RDF) listed in C:\DRESSAC\059201rc.R91

RDF #	File Name	N residues w freq's	N residues w/o freq's	N LODs	LOD Value	N Zeros
1	Apl pr. rdf	1	0	0	0	66
2	Grape. rdf	1	0	0	0	95
3	Peach. rdf	1	0	0	0	78
4	Potato. rdf	1	0	0	0	96
5	Apr. rdf	1	0	0	0	97
6	Nectpl. rdf	1	0	0	0	86